

Blockchain



The Global Blockchain Landscape

Blockchain technology's appeal lies in its ability to provide a secure, transparent, and immutable ledger of transactions. It has the potential to eliminate intermediaries, reduce transaction costs, and increase efficiency in various processes, making it a revolutionary force across industries.

The global blockchain technology market size was valued at USD 17.57 billion in 2023 and is projected to grow from USD 27.84 billion in 2024 to USD 825.93 billion by 2032, exhibiting a CAGR of 52.8% during the forecast period (2024-2032).¹ This exponential growth is driven by the increasing adoption of blockchain technology across various sectors, the growing demand for smart contracts, and the expanding ecosystem of decentralized finance

(DeFi). The blockchain and cryptocurrency industry, once a niche market dominated by tech enthusiasts and early adopters, has rapidly evolved into a global economic force. Initially created as the underlying structure for Bitcoin, it has grown beyond its original purpose to revolutionize various industries, including finance, supply chain management, healthcare, and even art through the emergence of Non-Fungible Tokens (NFTs).

Blockchain is the tech. Bitcoin is merely the first mainstream manifestation of its potential.
- Marc Kenigsberg, founder of Bitcoin Chaser



Decade-wise Evolution

Year	Event
1991	Stuart Haber and W. Scott Stornetta proposed the first blockchain-like protocol to timestamp digital documents.
2008	Satoshi Nakamoto published the Bitcoin whitepaper, titled 'Bitcoin: A Peer-to-Peer Electronic Cash System.'
2009	Bitcoin was launched, marking the first implementation of blockchain technology.
2010	The first known commercial Bitcoin transaction occurred when Laszlo Hanyecz bought two pizzas for 10,000 BTC.
2011	Bitcoin reached parity with the US dollar, marking an important milestone.
2013	Ethereum was proposed by Vitalik Buterin, introducing the concept of smart contracts to blockchain.
2015	Ethereum launched, bringing programmable blockchain and smart contracts into mainstream use.
2016	The DAO (Decentralized Autonomous Organization) hack occurred, resulting in a significant loss of funds and leading to Ethereum's hard fork.
2017	Bitcoin reached an all-time high of nearly USD 20,000, bringing blockchain technology into the global spotlight.
2018	The ICO (Initial Coin Offering) boom peaked, raising billions of dollars, but also leading to regulatory scrutiny.
2019	Facebook announced plans for its digital currency Libra (later renamed Diem), sparking debates on regulatory compliance.
2020	Decentralized Finance (DeFi) began to surge, with platforms like Uniswap and Compound gaining popularity.
2021	NFTs (Non-Fungible Tokens) became mainstream, with high-profile sales like Beeple's USD 69 million artwork auction.
2022	The Ethereum Merge took place, transitioning Ethereum from Proof of Work (PoW) to Proof of Stake (PoS).
2023	Bitcoin's Taproot upgrade was activated, enhancing privacy and smart contract functionality on the Bitcoin network.

¹ Blockchain Technology Market Size | Industry Forecast [2032]. (2024, September 14). Retrieved from <https://www.fortunebusinessinsights.com/industry-reports/blockchain-market-100072>

⁴ Ibid.

⁵ Ibid.

⁶ Ibid.

⁷ <https://esportsworldcup.com/en/competition/prize-pool?mibextid=kdtkhki>

Blockchain and Cryptocurrency

As of September 2024, the cryptocurrency market encompasses over 10,000 cryptocurrencies, 794 exchanges, and boasts a market capitalization of USD 2.1 trillion, with a 24-hour trading volume of USD 66.86 billion; Bitcoin leads with a dominance of 56.5%, while Ethereum holds 13.9%.² With over 562 million cryptocurrency users globally as of 2024, the adoption of digital currencies is no longer limited to tech-savvy individuals.³

Countries like El Salvador have even adopted Bitcoin as legal tender, marking a significant milestone in cryptocurrency's journey towards mainstream acceptance.⁴ The cryptocurrency market is highly



gaming, and entertainment sectors. NFTs allow for the creation and ownership of unique digital assets. Artists, musicians, and even sports teams are leveraging NFTs to create new revenue streams and engage with their audiences in innovative ways.

NFTs are the gateway drug to getting people into crypto.
- Gary Vaynerchuk, entrepreneur and internet personality

Blockchain in Other Industries

Blockchain technology is reshaping industries by offering enhanced security, transparency, and efficiency, along with reducing operational costs. In law enforcement, blockchain secures video evidence by time-stamping and protecting it from tampering, ensuring the integrity of digital proof in legal processes. In shipping and logistics, blockchain allows scalable and transparent tracking, improving operational efficiency across global supply chains. For supply chains, it improves tracking and compliance, particularly in temperature-sensitive sectors like pharmaceuticals and food. Blockchain also ensures product safety by maintaining conditions throughout transportation, helping companies trace products from origin to delivery.

dynamic, with the prices of digital assets often influenced by factors such as regulatory developments, technological advancements, and market sentiment.

The rise of stablecoins, cryptocurrencies pegged to traditional fiat currencies, has further facilitated the adoption of digital currencies by reducing the volatility typically associated with cryptocurrencies. The total market capitalization of stablecoins exceeded USD 130 billion in 2023, underscoring their growing importance in the crypto ecosystem.⁵

The Rise of DeFi and NFTs

Decentralized Finance (DeFi) has emerged as one of the most transformative aspects of blockchain technology. By eliminating traditional intermediaries like banks, DeFi platforms enable users to lend, borrow, trade, and earn interest on their assets in a peer-to-peer manner. As of 2023, the total value locked (TVL) in DeFi protocols exceeds USD 100 billion, highlighting the significant impact of DeFi on the financial ecosystem.

NFTs have also gained immense popularity, particularly in the art,

² <https://www.siue.edu/esports/about/history.shtml>

³ *ibid.*

⁴ *ibid.*

⁵ <https://whatsthebigdata.com/esports-stats>



Identity management is another key area where blockchain provides a decentralized and secure solution. Individuals can control access to their personal data, protecting against unauthorized use. In software security, blockchain helps by making code dependencies tamper-proof and traceable, reducing vulnerabilities and enhancing protection against cyberattacks.

In the media industry, blockchain has the potential to transform content rights management by offering transparent systems for licensing and distribution, ensuring fair compensation for creators and streamlined processes for media companies. Real estate transactions also benefit from this technology, as blockchain eliminates intermediaries, accelerates processes, and enhances transparency in property sales and investments.

The banking and finance sector is also seeing increased security and efficiency in transactions, with blockchain

reducing fraud risks and facilitating faster international transfers. Governments can adopt blockchain to increase transparency in government operations, where financial transactions and expenditures can be automated and publicly recorded. Meanwhile, in healthcare, blockchain is transforming patient data management, enhancing privacy, reducing costs, and securing medical records. Hospitals are using blockchain to counter rising data breaches, streamlining record-sharing and improving data integrity.

It also supports higher education by offering secure credentialing, enabling students to control and share their academic records seamlessly. Agriculture also benefits from blockchain's ability to trace crops, monitor contamination, and facilitate insurance processes through smart contracts. Another use case is product development, where blockchain tracks components and resolves issues stemming from fragmented systems.

¹² Intenta Digital, "Video Games Industry: Statistics, Demographics, and Trends in Pakistan."



Challenges and Future Outlook

Despite the rapid growth and potential of blockchain and cryptocurrencies, the industry faces several challenges. Regulatory uncertainty remains a significant hurdle, with governments around the world grappling with how to regulate digital assets effectively. Scalability is another challenge, as blockchain networks need to process an increasing number of transactions without compromising speed and security. The development of blockchain 3.0, which promises to address scalability and interoperability issues, is set to further enhance the capabilities of blockchain technology. Additionally, the integration of artificial intelligence (AI) with blockchain could unlock new possibilities for automation and data analysis.

The rise of central bank digital currencies (CBDCs) could also play a pivotal role in shaping the future of money, providing a bridge between traditional finance and the emerging world of cryptocurrencies.



The future of money is digital currency.
- Bill Gates, Co-founder of Microsoft

¹³ https://www.sports.gov.pk/SiteImage/Misc/files/E_sports.pdf

¹⁴ <https://www.nasdaq.com/market-activity/stocks/gpak>

¹⁵ <https://www.geo.tv/latest/386299-gamers-of-the-future-does-esports-have-a-future-in-pakistan>

Blockchain Landscape in Pakistan

Despite the global hype, Pakistan's journey in blockchain and cryptocurrencies has been marked by a mix of cautious optimism, regulatory challenges, and an emerging tech-savvy community eager to embrace the digital revolution. The nation's IT sector has seized the opportunity presented by blockchain technology. While domestic blockchain initiatives have been limited, software development firms have emerged as key players in the global blockchain market, catering primarily to clients in Europe and the USA.

Pakistan's software industry has identified blockchain as a transformative tool, offering services such as DeFi solutions, smart contract development, tokenomics design, and more. Leveraging their expertise, local companies have successfully delivered blockchain projects that have attracted significant international interest. This has established Pakistan as a reputable hub for blockchain development services.



Government Initiatives and Regulatory Landscape

The most visible application of blockchain in Pakistan has been in the financial sector, particularly with cryptocurrencies. Despite the State Bank of Pakistan's (SBP) initial stance against cryptocurrencies, labeling them as illegal tender in 2018, there has been a growing underground market and a burgeoning community of crypto enthusiasts. Platforms like Binance and LocalBitcoins have gained popularity among Pakistanis, with the country ranking third in Chainalysis' 2021 Global Crypto Adoption Index, highlighting the significant, albeit unofficial, use of cryptocurrencies.

Recognizing the potential of blockchain, the SBP launched a study in 2019 to explore the feasibility of a Central Bank Digital Currency (CBDC). By 2025, Pakistan aims to introduce its own digital currency to enhance financial inclusion, reduce costs, and improve the efficiency of its financial system.

The government of Pakistan has also shown a growing interest in blockchain for improving governance and reducing corruption. In 2020, President Arif Avi called for the 'National Blockchain Strategy' aimed at integrating blockchain in various government functions, including land records management, voting systems, and public service delivery.

Moreover, in 2022, the Sindh government, in collaboration with a local tech firm, launched a pilot project

to digitize and secure land records using blockchain. This initiative was aimed at reducing fraud and ensuring transparency in land ownership transfers, a perennial issue in the country.

Regulatory uncertainty, however, remains a significant hurdle for blockchain adoption in Pakistan. While the Securities and Exchange Commission of Pakistan (SECP) released a position paper in 2021 advocating for the adoption of blockchain in the capital markets, a comprehensive regulatory framework is still in the works. The government is expected to release clearer guidelines in the coming years as part of its broader digital transformation strategy.



Educational Initiatives and Talent Development

Recognizing the importance of building a skilled workforce in blockchain technology, various Pakistani universities and tech hubs have started offering courses and certifications in blockchain. In 2023, the National Incubation Center (NIC) in Islamabad launched a blockchain accelerator program in collaboration with international partners.



Blockchain Startups and Innovation

The country's blockchain developers are not only proficient in leading platforms such as Ethereum, Hyperledger, and Polygon but are also pioneers in innovative areas like decentralized applications (DApps), NFTs, and DeFi. These firms are equipped to deliver high-quality, scalable blockchain solutions to meet the evolving needs of international clients.

Since 2015, the blockchain landscape in Pakistan has been transformed by a group of pioneering companies, each contributing unique innovations that have shaped the industry. Cubix and ArhamSoft were already well-established companies by the time blockchain emerged. They successfully expanded their expertise, solidifying their positions as key players in the blockchain industry.

Cubix, a global leader in blockchain development, began creating custom solutions for enterprises by leveraging its expertise in DApps and blockchain

protocol design. With its experience working for global giants like Sony and Walmart, Cubix introduced advanced blockchain applications to Pakistan, transforming industries like finance, healthcare, and real estate. Cubix also provided crucial infrastructure for cryptocurrency exchanges, decentralized asset management, and NFT platforms, paving the way for more widespread blockchain adoption in the country.

ArhamSoft, a notable player in Pakistan's software development scene, embraced blockchain technology as a core component of its services. By launching platforms like Kingdomonero, Farmz.network, and Project Nexus, ArhamSoft ventured into blockchain-based gaming, DeFi, and fintech. Their contributions have helped grow Pakistan's blockchain sector by integrating cutting-edge tech solutions with local businesses, enhancing operational efficiency and data security.

¹⁶ <https://propakistani.pk/2021/12/06/pakistan-ranked-among-top-30-countries-for-esports-earnings/>

¹⁷ <https://www.youtube.com/@DuckyExtra>

¹⁸ <https://www.paradigmshift.com.pk/esports-industry-pakistan/>

¹⁹ <http://dga.gamenow.com.pk/#>

²⁰ <http://dga.gamenow.com.pk/#>

²¹ <https://arynews.tv/esports-pakistan-gamers-galaxy-festival-kicks-off-in-lahore>

²² <https://www.statista.com/outlook/amo/esports/pakistan>

Block360 emerged with a strong focus on blockchain development, AI, and mobile solutions, quickly gaining a reputation for driving fintech innovations. Their work on projects like GSU Protocol and DAB:LY demonstrated how decentralized finance and tokenization could provide secure, efficient platforms for businesses and individuals. Block360's contribution to blockchain-based education and metal tokenization introduced innovative blockchain applications to new sectors, fueling the rise of decentralized solutions within the country.

Xord became an essential player in advancing Pakistan's blockchain research and development. Specializing in DeFi, zero-knowledge proofs (ZK), and blockchain infrastructure, Xord has worked on a diverse range of projects, such as A51 Finance, Spock Analytics, and Yield Arcade, all of which revolutionized how blockchain is used for finance, data analytics, and gaming. Their focus on security and product innovation helped build trust in blockchain technologies among local and international investors, further pushing the boundaries of what could be achieved with blockchain in Pakistan.

BlockApex, with its security-first approach, played a vital role in safeguarding the blockchain ecosystem. By developing and securing over 250 smart contracts and protecting more than USD 1.3 billion in TVL, BlockApex established itself as a trusted leader in blockchain security. Their work with major DeFi projects



and governance protocols demonstrated the critical need for secure, scalable solutions, inspiring confidence in blockchain technologies across sectors like banking and asset management.

OptimusFox, another key player, focused on blockchain development and IT consultancy. They introduced blockchain-powered payment gateways, decentralized exchanges, and multi-currency wallets, helping businesses reduce costs, improve security, and navigate the complexities of the digital economy. Their innovative approach to blockchain integration has made them a vital contributor to the blockchain ecosystem.

Despite their brief histories, these firms have quickly made their mark in the blockchain industry, demonstrating impressive growth and innovation. As a result, Pakistan's blockchain landscape has grown significantly since 2015, from early-stage experimentation to large-scale, enterprise-level implementation, positioning the country as a growing hub for blockchain innovation.

²³ IGN Pakistan. (2024, August 12). Retrieved from <https://pk.ign.com>

cubix.

Cubix

Cubix is a leading blockchain development company specializing in creating innovative blockchain solutions for enterprises worldwide. With over 15 years of experience, Cubix has completed more than 1,300 projects, supported by a team of 350+ designers and developers. Cubix provides a range of blockchain services, including enterprise blockchain development, DApp development, blockchain protocol design, smart contract creation, and asset tokenization. The company has worked with global brands such as Sony, Walmart, Nintendo, and Canon, delivering secure, scalable, and future-ready blockchain solutions.

Cubix offers custom blockchain development services tailored to optimize operations for various industries. Their expertise extends to building DApps using smart contracts and Web3 technology, ensuring interoperability and scalability. Cubix also specializes in blockchain protocol development, focusing on customized consensus algorithms, network architecture, and advanced cryptography to meet specific client needs. Additionally, Cubix's asset tokenization services allow businesses to digitize real-world assets, facilitating issuance, listing, and trading on blockchain platforms.

The company is also known for its cryptocurrency exchange development capabilities, creating both centralized and decentralized exchanges that



provide global market access and enhanced security. Cubix ensures the seamless integration of blockchain technology with existing systems and offers continuous upgrades to incorporate the latest innovations. Their comprehensive blockchain quality assurance and testing services ensure that each solution is robust, secure, and ready for market deployment.

Cubix develops its blockchain solutions on leading platforms such as Ethereum, Hyperledger Fabric, and R3 Corda. The company has been recognized for its contribution to the blockchain space, partnering with notable organizations and delivering award-winning projects. Clients, including industry leaders in finance, healthcare, real estate, and education, rely on Cubix for its expertise in blockchain integration, operational efficiency, and enhanced security.

Cubix's portfolio includes a diverse range of blockchain projects, from social networking apps to Play-to-Earn (P2E) games and NFT-based platforms. Notable projects include Wagmi, a multiplayer P2E tower defense game with in-game NFT assets, and Taunt Battle, an NFT-based simulation game with an engage-to-earn model. Cubix continues to drive blockchain innovation across various industries, transforming business operations with its custom, high-performance solutions.

Notable Projects

► Wagmi ► Taunt Battle

²⁴ Agon Esports — Esports Business | TEN.gg. (2024, August 12). Retrieved from <https://ten.gg/b/agon-esports>

²⁵ Ibid.

²⁶ Ibid.



IT Solutions
ArhamSoft (Pvt) Ltd.
www.arhamsoft.com

ArhamSoft

ArhamSoft (Pvt) Ltd., founded in 2007, is a prominent global software services provider specializing in a range of IT solutions, including custom software development, blockchain technology, game development, cloud services, and digital marketing.

The company's team of experts is dedicated to providing enterprise-grade services that meet the diverse needs of its clients. In recognition of its achievements, ArhamSoft received the Lahore Chambers of Commerce and Industry IT Award for Best Software House in 2022 from the President of Pakistan, highlighting its impact on the local IT industry.

Additionally, the company was honored with the Best IT Exporter Award by the Pakistan Software Export Board (PSEB) in 2021. ArhamSoft has



also established successful partnerships with international clients, reinforcing its reputation for excellence in software development and IT services.

ArhamSoft employs a team of over 150 skilled professionals and has delivered solutions to more than 500 clients globally. The company is recognized for its significant contributions to the tech industry, including its innovative blockchain solutions that address complex business challenges.

Notable Projects

- ▶ Kingdomonero is a blockchain-based gaming platform designed to enhance the user experience with decentralized asset ownership and in-game rewards
- ▶ Farmz.network is a decentralized farming platform that enables users to participate in yield farming

and earn rewards through liquidity provision

- ▶ Project Nexus is a comprehensive fintech solution providing seamless payment processing, financial management, and security for digital transactions
- ▶ Daya is a data privacy management platform that allows users to control their personal data while providing companies with transparent data usage insights
- ▶ Elixir is a blockchain-powered digital identity management system designed to streamline authentication and secure personal information



- ▶ Ritzcoin is a cryptocurrency designed to facilitate fast, secure, and low-cost transactions, promoting financial inclusion in digital markets.



- ▶ Annex is a DeFi platform that provides lending, borrowing, and staking services through smart contract automation.
- ▶ Holdexfinance is a multi-functional DeFi platform offering asset management, staking, and lending services with enhanced security protocols.
- ▶ LoopMarkets is a decentralized exchange platform enabling seamless and secure trading of digital assets with liquidity provision features
- ▶ Bitz n Pizzas is a blockchain-based restaurant management system that integrates cryptocurrency payments, order tracking, and loyalty programs.

²⁷ Ggden., Ggden. g. P. B. (2024, August 09). GGDEN - Elevating your streaming experience. Retrieved from <https://www.ggden.com>

²⁸ Ibid.

²⁹ GPAK (2024, July 24). Retrieved from <https://www.nasdaq.com/market-activity/stocks/gpak>

BLOCK360

Web3 Product Design & Development

Block360

Block360 is a software development agency founded to provide comprehensive, high-quality solutions for mobile, web, blockchain, and AI applications. Established with a focus on delivering cost-effective and efficient software development services, Block360 leverages a team of skilled engineers to help clients build, test, and deploy robust solutions. Specializing in blockchain and cryptocurrency technologies, the company offers services that include DeFi, smart contracts, wallets, and Layer 2 solutions, aiming to drive innovation and support startups and enterprises in the fintech sector.

The company has been recognized for its contributions to blockchain and fintech. They have partnered with over 15 fintech startups and enterprises to provide blockchain and AI-driven solutions. Block360 has been involved in several blockchain projects, each showcasing its expertise in different areas of blockchain technology. GSU Protocol

is a decentralized collateralized debt position (CDP) protocol on the Ethereum blockchain, which utilizes multi-crypto collateral to issue a stable unit called GSU Stable Coin. DAB:LY integrates precious metal tokenization with smart contracts and DeFi systems, enhancing the functionality of digital assets. Skillsbite focuses on creating a decentralized learning platform to advance careers in future technologies through a blockchain-based educational network.

Block360 was noted for its involvement in innovative projects and has achieved significant milestones in the industry. Their portfolio includes a diverse range of blockchain applications, such as DeFi, smart contracts, and crypto wallet development.

Notable Projects

- ▶ Skillsbite
- ▶ GSU Protocol
- ▶ DAB:LY



Xord

Xord is a specialized firm dedicated to advancing the blockchain and cryptocurrency landscape through rigorous research and innovative product development. The company focuses on key areas such as DeFi, on-chain analytics, zero-knowledge proofs (ZK), restaking, and blockchain infrastructure. Their expertise encompasses multiple blockchain platforms, including Ethereum and its Layer 2 solutions, Solana, and Cosmos. With a hands-on approach to product ideation, technical design, and development, Xord aims to deliver cutting-edge solutions that address complex challenges in the blockchain space.

The company's portfolio includes a diverse range of blockchain projects. A51 Finance offers a solution for remote liquidity management, enhancing user control over their assets. Musafir Network provides infrastructure for a borderless Ethereum ecosystem, facilitating global interactions within the Ethereum network. Spock Analytics serves as a wallet analytics and search engine, providing users with insights into wallet transactions

and activity. Revolon is a Web3 racing game that integrates blockchain technology into interactive entertainment. Yield Arcade enables liquid restaking, allowing users to optimize their staking strategies. Swoop acts as an asset consolidation layer on top of the Wormhole network, simplifying asset management across different platforms.

Additionally, BlockshipDAO fosters a global Web3 community, promoting collaboration and innovation in the blockchain space. Metadot functions as a comprehensive wallet for the Polkadot ecosystem, supporting seamless interactions within the Polkadot network. Shield offers a testing and development framework for zero-knowledge proofs, advancing privacy and security in blockchain applications. SATOSHIS.RUNES explores Bitcoin through the concept of runes, enhancing understanding and engagement with the Bitcoin network.

Notable Projects

- ▶ SATOSHIS.RUNES
- ▶ Metadot
- ▶ Uni Pilot
- ▶ Yield Arcade
- ▶ Revolon
- ▶ Spock Analytics
- ▶ Musafir Network
- ▶ A51 Finance





Block Apex

BlockApex is a prominent security-focused blockchain consulting firm that specializes in enhancing blockchain technology with a strong emphasis on security and DeFi. The firm offers a comprehensive suite of services, including blockchain consulting, smart contract audits, DApp penetration testing, DeFi innovation, and blockchain security solutions. BlockApex is instrumental in developing and securing blockchain infrastructures for neo banking, governance, and asset management.

The company has made significant strides in the blockchain sector. Its focus on balancing scalability, security, and decentralization has positioned it as a unique player in the blockchain consulting space. BlockApex has developed over 250 smart contracts, secured more than USD 1.3 billion in TVL across various platforms, and identified over 300 vulnerabilities. Their extensive experience spans across 17 countries,



³⁰ <https://www.redbull.com/pk-en/athlete/arslan-ash>



and they have facilitated the raising of over USD 25 million for their clients. The firm is known for its dual approach: providing blockchain-agnostic security services, such as threat modeling and smart contract auditing, and delivering engineering solutions tailored to DeFi, governance, and asset management.

BlockApex's key projects highlight its expertise in the industry. For A51 Finance, the firm was instrumental in developing and securing the smart contract infrastructure. Musafir Network's DeFi platform benefited from BlockApex's advanced security measures and protocol design. Spock Analytics utilized BlockApex to ensure the security of its analytical tools, while Revolon relied on their DeFi solutions and security audits. Yield Arcade's integration of security best practices was guided by BlockApex, and Swoop's smart contract architecture was optimized through their services. BlockshipDAO's governance framework and Unipilot's protocol and tokenomics design were both enhanced by BlockApex. Additionally, Metadot's infrastructure and Shield's DeFi security were bolstered by BlockApex's comprehensive solutions. SATOSHIS.RUNES also benefited from BlockApex's expertise in smart contract development and security assessments.

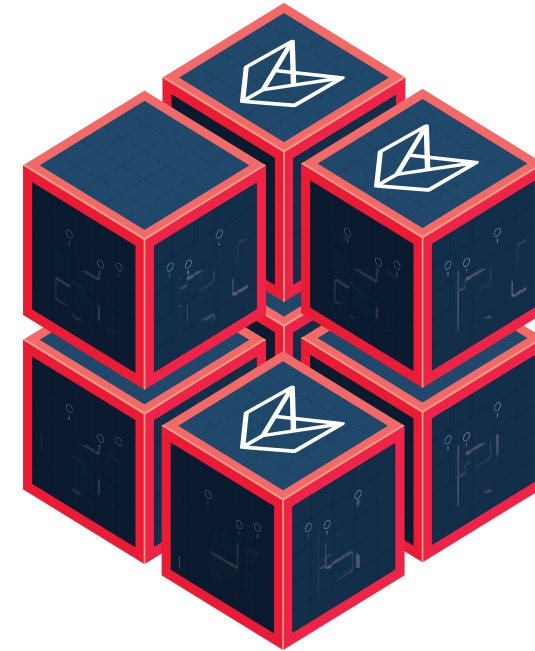


OPTIMUSFOX Optimus Fox

OptimusFox is a leading technology solutions provider based in Pakistan, specializing in blockchain development, IT consultancy, data analytics, and data security. OptimusFox offers a broad range of blockchain services, including smart contract development, crypto wallet development, DeFi solutions, whitepaper development, blockchain exchange development, and Hyperledger development.

The company's custom blockchain solutions cater to the specific needs of businesses across industries, helping them reduce transaction costs, enhance security, and improve data transparency. OptimusFox works on various blockchain platforms such as Ethereum, Polygon, and Hyperledger to deliver secure and scalable blockchain solutions.

The company has successfully developed multiple blockchain projects, including OptimusPay, a blockchain-based payment gateway enabling seamless cryptocurrency transactions; FoxExchange, a decentralized platform for trading digital assets with a focus on security and user experience; OptimusWallet, a multi-currency wallet that ensures secure storage and management of digital assets; and DefiFox, a decentralized finance platform that allows users to lend, borrow, and earn interest on their crypto assets.



In addition to blockchain services, OptimusFox also offers a wide range of other IT solutions, including web and mobile app development, artificial intelligence, staff augmentation, and digital marketing. The company's comprehensive service portfolio enables businesses to navigate the digital landscape effectively and achieve their strategic goals.

Notable Projects

- ▶ OptimusPay**
- ▶ DefiFox**
- ▶ Optimus Wallet**
- ▶ FoxExchange**

³¹ <https://ensigame.com/players/dota-2/sumail-sumail-hassan>

³² <https://escorenews.com/en/dota-2/player/sumail>

³³ UZM. (2024, August 08). Retrieved from <https://liquipedia.net/pubgmobile/UZM>



Softtik Technologies

Softtik Technologies is a global blockchain development agency providing advanced and reliable solutions for enterprises. With a dedicated team of 50+ full-stack developers, Softtik focuses on helping businesses integrate blockchain technology, elevating their operations through innovative solutions. The company's portfolio covers a wide range of services, including ICO development, NFT projects and marketplace development, metaverse solutions, DAO creation, cryptocurrency wallet development, and smart contract creation, all aimed at empowering businesses to stay competitive in the fast-evolving digital economy.

Throughout its operations, Softtik Technologies has achieved significant milestones, including the completion of more than 35 end-to-end ICO and NFT projects. With over eight years of industry experience, Softtik's impressive track record includes completing 70+ blockchain projects, generating over USD 11 million in revenue. The company's solutions are trusted by startups and enterprises alike, particularly in the fields of token development, cryptocurrency exchanges, and blockchain game development. Their technology stack incorporates the latest tools to ensure the highest quality blockchain development and smart contract deployment. In addition, Softtik holds multiple certifications, reinforcing their



commitment to compliance, security, and performance.

Key projects developed by Softtik include Cats of Fortune, an NFT project that gained traction for its collectible assets; Rooflex, a decentralized property management platform; CSWar, a blockchain-based competitive gaming platform; and Gatorverse, an interactive metaverse designed for social experiences.

Notable Projects

- ▶ **Cats of Fortune** ▶ **Rooflex**
- ▶ **Gatorverse** ▶ **CSWar**

We work with Softtik technology on a daily basis. We are extremely satisfied with their commitment and professionalism. They know how to smoothly translate our wishes into a workable product. We would like to thank the Softtik team.

**- Project Manager Khizar, Reshad Zia
Founder YOUSOURCE VB NET
METAVERSE**

Softtik is the best in the game. I almost don't want to write this awesome review as I want to keep Softtik for myself for longterm and dedicatedly working on my projects. **-Woofpack**



Tenup.io

TenUp.io is a decentralized platform focused on Web3 DApps, empowering businesses and individuals to embrace decentralization. It has secured multiple partnerships, expanding its service portfolio to include cross-chain transactions, hotel and flight booking options across over 600 airlines and 2.2 million accommodations globally.

At the core of TenUp.io's services is the utility-driven TUP token, enabling decentralized flight and hotel bookings, along with various other services. The platform's P2E Ludo Love NFT game allows users to engage with blockchain technology in a gamified way. TenUp.io's transparent tokenomics involve a total supply of 191,998,848.87 TUP tokens, with distribution including 20% each for presale, liquidity, and staking, and additional allocations for TenUp Swap, marketing, and airdrops. The platform

has a growing community, with 332 stakers locking in over 28 million TUP tokens. Key partnerships enable seamless token swaps between Ethereum and Binance Smart Chain via the TenUp Crosschain Bridge.

TenUp.io provides a variety of blockchain-powered products aimed at enhancing user convenience, including the TenUp Crosschain Bridge for cross-network token swaps, TenUp Top Up for mobile sim card recharges, and Virtual Staking, which offers high APYs without a vesting period, allowing users to access their rewards anytime.

Notable Projects

- ▶ **Ludo LOVE**
- ▶ **TenUp Crosschain Bridge**
- ▶ **TenUp Top Up**
- ▶ **Virtual Staking**





BCDapps

Established in 2014, BCD Apps, is a prominent software development firm with a decade of experience in blockchain solutions, AI, and custom software. Their expertise spans blockchain development, AI software, custom software solutions, and cloud implementation.

BCD Apps developed Expanse, a blockchain-powered cloud computer designed to enable censorship-resistant smart contracts and decentralized applications, incorporating unique modifications of Ethereum's core code. TokenLab represents a cutting-edge digital solution aimed at transforming business operations through innovative technology. Proof Suite, an open-source blockchain technology company, specializes in smart contracts and has facilitated millions of dollars in transactions within decentralized



environments. iNf4mation, the first project to launch NFTs directly from the Salesforce platform, focuses on data control and compliance through blockchain technology. IGT-Crypto evolved from a cryptocurrency exchange to a secure financial platform supporting various digital and fiat currencies. Kuverit is an online marketplace using blockchain technology to ensure secure two-way transactions in various industries.

Notable Projects

- ▶ **Expanse**
- ▶ **Proof Suite**
- ▶ **IGT-Crypto**
- ▶ **TokenLab**
- ▶ **iNf4mation**
- ▶ **Kuverit**



XISLABS

XISLABS specializes in blockchain development, custom software solutions, web and mobile application development, and UI/UX design. Their team of experienced engineers and innovators aims to transform businesses by delivering high-impact digital solutions.

The company's achievements include being awarded Best Blockchain Solution Provider at the Global Tech Awards 2023. This accolade underscores their leadership and excellence in blockchain technology. XISLABS has also established strategic partnerships with prominent tech giants like IBM and Microsoft, enhancing their technological capabilities and market presence. These collaborations contribute to their ability to offer advanced and cutting-edge solutions to clients.

The company has completed over 100 projects, reflecting their robust experience and reliability. XISLABS has demonstrated substantial expertise and success in the blockchain sector through its diverse range of projects. Battle Saga NFT is a platform for creating and trading unique digital assets, facilitating secure ownership and exchange of NFTs. Coupon Redeem App is designed to enhance consumer engagement by allowing users to redeem digital coupons

securely. Crypto Wallet App provides a secure environment for storing and managing various cryptocurrencies, incorporating advanced security measures to protect user assets.

Notable Projects

- ▶ **Battle Saga NFT**
- ▶ **Coupon Redeem App**
- ▶ **Crypto Wallet App**



Blockchain



DAO PropTech

DAO PropTech is a blockchain-based real estate investment platform that facilitates fractional ownership of verified real estate projects. By leveraging blockchain technology, the platform provides a secure, transparent environment that eliminates intermediaries, allowing both local and international investors to enter the real estate market with low initial investments. It offers flexible payment options and digital tools for portfolio management, democratizing access to real estate investments.

The platform's services include fractional real estate investment, personalized investment plans, blockchain-secured transactions, digital portfolio management, and flexible payment solutions. DAO PropTech's data-driven project selection process ensures value-based pricing and easier liquidity access. Its



investment plans cater to diverse investor needs, including profit, possession, income, and saving-based options. This approach has attracted 31,150 users, facilitated 3,517 transactions, and resulted in 915,512 square feet of real estate sold.

DAO PropTech has earned multiple awards for its innovative use of blockchain in real estate and has been featured in several notable publications.

I ditched the committee route and invested with DAO PropTech. I would highly recommend DAO to my inner and outer circle, especially housewives because it lets you save your money in a very transparent manner.
- Minahil Khan, Lawyer

As an expat, it was difficult for me to invest in real estate in Pakistan. This is the only digital platform that is transparent, and where I can invest from anywhere around the globe. The best part is that I can track and modify my investments all along.
- Sami Uddin Ahmad



Xstate

Xstate is a blockchain-driven real estate investment platform that simplifies access to premium properties by allowing users to invest in fractional shares. This innovative approach enables investors to start earning rental income with minimal capital, offering a transparent and secure investment experience. Xstate's platform supports fractional ownership, making it easier for individuals to participate in real estate markets and benefit from property income without purchasing entire properties.

Xstate operates with a commitment to Shariah compliance and is fully regulated by SECP under its fourth Sandbox cohort. This regulation ensures adherence to government standards and includes regular audits, providing investors with confidence in the platform's legitimacy. All

transactions are securely recorded on the blockchain, guaranteeing transparency and protection from fraud. Xstate is particularly focused on maintaining ethical investment practices and ensuring 100% transparency.

The platform has successfully attracted over 700 investors, who have collectively purchased more than 7 million tokens. Xstate's market presence is supported by its comprehensive services, including property management, liquidity solutions, and transparent pricing with no hidden costs.





Dev House

DevHouse is a blockchain-focused startup that specializes in developing DeFi solutions to create more secure, transparent, and efficient financial systems. The company builds DApps, smart contracts, and blockchain-based tools aimed at revolutionizing finance by enhancing accessibility and trust in digital transactions. DevHouse's services cater to various industries such as healthcare, agriculture, sports, travel, social media, and education.

DevHouse has earned recognition for its innovative contributions to the blockchain space. Ranked among the top web development agencies of 2023, it is listed in the INC. 5000 as one of Pakistan's fastest-growing companies. The company has also received accolades from Web Excellence for its creative web solutions and Dot Comm for excellence in digital communication. These achievements underscore DevHouse's commitment to delivering high-quality blockchain solutions.

The company's blockchain development services include blockchain app development, front-end and back-end development, data management, testing and deployment, and security measures. DevHouse utilizes technologies like Web3.js, Solidity, Node.js, Angular, Docker, Ethereum, Hyperledger Fabric, and Corda to build robust and scalable applications. Their expertise extends to

integrating various blockchain platforms and cryptocurrencies, ensuring secure, decentralized operations for clients.

DevHouse's portfolio includes work on significant projects such as Muqawiloon, a web application connecting contractors and suppliers with individuals needing construction services, and collaborations with global clients like Morilee and Tolli Project.



Dev Provider

DevProvider specializes in blockchain technology and decentralized solutions, focusing on enhancing transparency, security, and efficiency across various industries. The company develops blockchain-based platforms and applications, addressing challenges in finance, supply chain, healthcare, and other sectors. DevProvider's commitment to advancing decentralized finance (DeFi) and blockchain innovations enables businesses to harness the potential of distributed ledger technology.

DevProvider offers a range of services, including blockchain consulting, DApp development, smart contract programming, and custom software solutions. Utilizing technologies such as



Ethereum, Hyperledger, and Corda, the company delivers scalable and secure blockchain solutions. Additionally, DevProvider provides IT staffing and augmentation services, supplying specialized blockchain talent to support clients' digital transformation needs.

The company collaborates with diverse clients, including startups and financial institutions, developing blockchain solutions for secure data management, automated supply chains, and decentralized finance platforms. Strategic partnerships with technology firms enhance its ability to deliver tailored blockchain applications.





BlocTech Solutions

BlocTech Solutions is a prominent software development company established in 2020 and headquartered in Pakistan. The company offers an extensive suite of services, including blockchain development, cryptocurrency consulting, mobile app development, and web development.

The company has garnered recognition in the blockchain industry, notably receiving the Best Blockchain Development Company award from GoodFirms in 2023. BlocTech Solutions has also fostered partnerships with educational and financial institutions to advance blockchain innovation. The company has worked with a diverse range of clients, including fintech startups, to develop blockchain-based financial solutions.

Their primary services include comprehensive blockchain solutions



such as smart contract development, Ethereum and Polygon (MATIC) platforms, smart contract audits, and NFT marketplaces. They also specialize in DApps, tokenization, and the development of both decentralized and centralized exchanges. With expertise in ERC721, ERC1155, Solidity, and Metaverse applications, BlocTech Solutions provides a wide array of services to meet the evolving demands of the blockchain landscape.



Reactive Space

Reactive Space is a prominent technology firm specializing in blockchain development services, offering a comprehensive suite of solutions: Reactive Space has demonstrated significant capabilities in custom blockchain software development, providing tailored solutions that address unique business requirements. The firm also excels in blockchain and IoT integrations, which combine these technologies to deliver advanced, secure solutions. Their smart contracts automate and secure transactions, while their DApps facilitate efficient, decentralized operations. Additionally, Reactive Space offers robust blockchain wallet development for secure cryptocurrency management and custom token and coin design, including unique logos.

In addition to its blockchain expertise, Reactive Space is proficient in web and mobile app development, artificial intelligence-powered automation, machine learning, and IoT integration.



Onion Technologies

One of the major offerings of Onion Technologies is Onion Crypto Signals, a specialized platform dedicated to delivering premium cryptocurrency trading signals designed to assist traders in making informed decisions within the volatile crypto market. Onion Crypto Signals aims to support traders in maximizing their potential returns and effectively managing their crypto investments. Established to consolidate signals from over 30 reputable VIP groups, Onion Crypto Signals provides a single, reliable source for trading recommendations, including buy, sell, and hold advice on various cryptocurrencies. This approach enables users to optimize their trading strategies based on consolidated, expert insights.



The platform is recognized for its high accuracy and reliability in the crypto trading sphere. It reports an accuracy rate exceeding 90% for its trading signals, which has contributed to a growing and engaged user base. This has also led to its recognition in prominent crypto trading forums and partnerships with top crypto analysts and traders.

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About this Industry Roundup

Pakistan Software Export Board developed this paper by hiring services of independent consulting firms to prepare this roundup on Pakistan's HealthTech sector. The paper focuses on Pakistan-based companies in this vertical and apprises the reader of the expertise available in Pakistan in this domain.

Disclaimer

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