SHIRO MASUMI

SR. FULLSTACK & BLOCKCHAIN ENGINEER

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About Me

Expert blockchain and fullstack engineer with 8 years of hands-on experience designing, building, and deploying cutting-edge applications and platforms using blockchain technology. Proficient in multiple programming languages, including Solidity, Rust, Move, JavaScript, TypeScript, Golang, Python, and more, and skilled in both front-end and back-end development using modern web frameworks such as React, Vue.js, AngularJS, and Node.js. Experienced in developing smart contracts, dApps, DEX, DeFi, and other blockchain-based solutions for various industries, including finance, healthcare, education, and more. Strong expertise in conducting thorough testing and auditing of smart contracts to ensure proper functionality and security. Proven ability to lead cross-functional teams, manage complex projects, and deliver high-quality results on time and within budget. Passionate about staying up-to-date with the latest advancements in blockchain technology and continuously improving skills to deliver innovative solutions.

Professional Experience

Sr. Fullstack and Blockchain Engineer

BlockchainMind, Toronto, Canada   Oct 2021 - Jan 2023

- Developed and contributed to the creation of various smart contracts and applications using Solidity, which are now being used by multiple blockchain networks and have been audited by top security firms for their robustness and reliability.
- Led the development of automated market-making algorithms based on UniswapV3, yield farming strategies, and other complex smart contract-based financial instruments that enabled users to earn passive income and take advantage of price arbitrage opportunities in transparent manner.
- Deployed Aptos blockchain's DeFi with lending/borrowing, leverage yield farming protocol using PancakeSwap, LiquidSwap, AUX Exchange.
- Architected, developed and deployed dApps and smart contracts using JavaScript/TypeScript, React, Next.js and Web3/Ethers/Solidity/Hardhat/Truffle.
- Developed and maintained a suite of custom APIs and SDKs that provided secure and efficient access to various core functionalities of the blockchain and web3 ecosystem.
- Implemented Rust-based solutions for NFT marketplace integration with other blockchains or platforms, enabling interoperability between different ecosystems.
- Designed and implemented a microservices-based architecture for a fintech platform, allowing for seamless integration with external APIs and improving overall scalability and maintainability.
- Developed a suite of tools and libraries for testing and deploying smart contracts, using best practices such as automated testing, code coverage analysis, and CI/CD.
- Mentored junior developers in best practices for blockchain development and fullstack engineering, resulting in improved team performance and morale.
- Collaborated closely with product owners, stakeholders, and cross-functional teams to gather requirements, design solutions, and deliver high-quality products on time and within budget.

Sr. Fullstack and Blockchain Engineer

Rabipearl, Manchester, UK   Oct 2019 - Sep 2021

- Developed a scalable infrastructure for a blockchain-based supply chain management system, allowing for real-time tracking and verification of goods from manufacturing to delivery.
- Created and maintained a popular ERC-20, ERC-721, and ERC-1155 token standard implementation that is widely used by other developers and integrated into various blockchain platforms.
- Designed and implemented a DEX and DeFi platform using Solidity and React.
- Contributed to the development of a decentralized autonomous organization (DAO) that enables community governance and decision-making, using Solidity and web3.js technologies.
- Successfully designed and implemented a decentralized application (DApp) with a highly performant frontend using the Svelte framework, which has been praised for its intuitive user interface and seamless integration with the blockchain backend.
- Implemented and optimized smart contracts using Solidity, resulting in significant cost savings in gas fees and improved transaction throughput.
- Implemented Rust-based solutions for decentralized identity (DID) on Solana, providing users with a secure and decentralized way to manage their personal information.
- Created a decentralized autonomous organization (DAO) using smart contracts, which enabled community members to propose and vote on various decisions related to the project's development and management. The DAO successfully executed several proposals and funded various initiatives.
- Implemented a custom governance mechanism for a DeFi platform, which enabled users to participate in decision-making processes related to the platform's development and management. The mechanism helped increase community engagement and participation.
- Collaborated closely with product owners, stakeholders, and cross-functional teams to gather requirements, design solutions, and deliver high-quality products on time and within budget.
- Collaborated with clients to understand their requirements and deliver innovative solutions.

Fullstack and Blockchain Developer

YPTOKEY, Berlin, Germany   Sep 2017 - Aug 2019

- Created a blockchain integration library packed with several modules, including price feed, smart contract interaction, token metadata fetching, and wallet interaction allowing fast and smooth front-end blockchain integration.
- Built and maintained user-friendly front-end interfaces using React, Redux, and HTML/CSS, resulting in increased adoption and user engagement for blockchain applications.
- Designed and implemented a decentralized lending platform using web3.js and Ethereum, which enabled borrowers to receive loans without intermediaries and lenders to earn interest on their funds with high liquidity.
- Built a peer-to-peer payment system using web3 technologies, including a mobile application built with Svelte, which has been praised for its ease of use and security features.
- Designed and implemented a decentralized exchange (DEX) platform using Solidity.
- Released a NFT marketplace on Ethereum network which can create, design, buy, sell NFTs in one place.
- Collaborated with cross-functional teams to create a suite of developer tools and libraries for web3 DAOs, which have been adopted by a variety of decentralized organizations and helped to increase transparency and accountability in their governance processes.
- Designed and implemented a backend infrastructure for a DApp, including a scalable database and API server, which enabled the application to handle large volumes of user data and requests.
- Collaborated with engineering and product teams to design, launch, and manage the network.

Full-stack Developer

kadasolutions, Zurich, Switzerland   Jul 2015 - Jul 2017

- Implemented pixel perfect front-end by design.
- Developed an automated system for monitoring and managing the network.
- Implemented SEO (Search Engine Optimization) to existing websites Retrieved data from multiple, different storage APIs.
- Redesigned the homepage, PDP, listing pages, checkout, cart page, third-party payment systems, variations, blog articles, glossary, and more.
- Built a complex e-commerce platform using Vue.js that resulted in a 20% increase in sales for the company.
- Developed and maintained a large-scale content management system using React that improved content delivery and management for a major publishing company.
- Through A/B testing of different components and combinations improved customer conversion rate by 17%, representing $500,000+ in incremental annual revenue.
- Experienced with Git, CI/CD, Agile Methodology, AWS and GCP.

Education

Apr 2011 to May 2015

Osaka University

GPA 3.65

Bachelor's Degree, Computer Science

Skills

Soft Skills

- Problem-Solving
- Time Management
- Organization
- Communication Skills
- Teamwork
- Productivity
- Creativity
- Self-directed Learning
- Open-mindedness

Technical Skills

- Blockchain Technology
- Cryptography
- Security Principles
- Data Structures
- Distributed Systems
- Consensus algorithms
- Smart Contracts
- DeFi Protocols
- P2P Protocols
- gRPC Protocols
- OOPs
- Service-oriented architecture
- Event-driven architecture
- Git
- CI/CD
- Jenkins
- Performance Testing/Tuning
- Test Automation
- Trello
- Kanban
- Scrum
- Jira

- Go
- Rust
- Solidity
- Move
- Cosmos SDK
- CosmWasm
- Substrate/Polkadot
- C/C++
- HTML5/CSS
- TailWindCSS
- JavaScript
- TypeScript
- React.js/Next.js
- Node.js/Express.js
- Web3.js/Ether.js
- Material UI
- MySQL
- MongoDB
- GraphQL
- RESTful API
- AWS/GCP/Azure
- Docker/Kubernetes
- Hardhat/Truffle