SHIRO MASUMI

SENIOR GO ENGINEER

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About Me

As a senior Go engineer with 6 years of experience, I have a track record of delivering successful projects in various domains including DeFi, go-ethereum, web3, and testing. Designed and developed decentralized applications, smart contracts, payment processing systems, messaging systems, and authentication systems using Go, Solidity, and other relevant technologies. Contributed to the Go community by building open-source libraries and mentoring junior engineers. Expertise in building scalable, fault-tolerant, and high-performance systems has helped to ensure the smooth operation of critical blockchain-based platforms.

Try to learn new things and update knowledge. Committed to the clients and always work with 100% client's satisfaction.

Professional Experience

Senior Go & Blockchain Engineer

BlockchainMind, Toronto, Canada   Oct 2021 - Jan 2023

- Authored several open-source projects and contributed to the Go and Ethereum communities, including the development of a popular Ethereum wallet and a Go-based blockchain explorer.
- Built a high-performance, distributed caching layer for a large-scale blockchain infrastructure using Go, resulting in significant improvements in query performance and reduced latency.
- Mentored and trained junior engineers on Go best practices, DeFi protocols, and Ethereum network architecture, resulting in a more knowledgeable and efficient development team.
- Contributed to the development of several open-source Go libraries, including crypto and networking packages, that were widely adopted by the Go community.
- Developed a novel implementation of the EVM that supports zero-knowledge proofs (ZK-EVM), enabling private and efficient execution of smart contracts for sensitive applications such as financial services and healthcare.
- Participated in the development of core-level and application-level blockchain software for Tendermint/Cosmos-SDK and Ethereum-based blockchains.
- 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.
- Designed and implemented a comprehensive testing framework for a critical financial application that reduced bugs by 80% and significantly improved application performance.
- 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 and helped them grow their skills in Go programming, blockchain development, and testing methodologies.

Senior Web3 Engineer

Rabipearl, Manchester, UK   Oct 2019 - Sep 2021

- Designed and implemented a secure and decentralized authentication system for a blockchain-based social network using Go, ensuring user data privacy and security.
- Built a custom CMS using Go, Python, MongoDB, and React, which allowed non-technical users to create and manage complex content structures and workflows, resulting in reduction in content publishing time and increased content quality.
- Created and maintained a popular ERC-20 token standard implementation that is widely used by other developers and integrated into various blockchain platforms.
- 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.
- 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 decentralized finance (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.
- Successfully resolved several critical production issues and implemented timely solutions for a blockchain-based lending platform, ensuring uninterrupted operation and maintaining user confidence.
- Implemented a custom consensus algorithm for a private blockchain network, which significantly improved the network's throughput and reduced transaction confirmation times.
- Collaborated with clients to understand their requirements and deliver innovative solutions.

Web3 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.
- Developed and implemented a design for a Distributed Ledger Technology (DLT) using Golang to facilitate a secure and efficient trading platform for cryptocurrency.
- 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.
- Released a NFT marketplace on Ethereum network which can create, design, buy, sell NFTs in one place.
- Built a scalable and fault-tolerant messaging system for a blockchain-based game using Go and gRPC, which handled thousands of concurrent players and game events.
- 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
- Performance Tuning
- Test Automation
- Trello
- Kanban
- Scrum
- Jira

- C/C++
- Go
- Rust
- Solidity
- Move
- Cosmos SDK
- CosmWasm
- Substrate/Polkadot
- 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