

Villy Fisker *Senior Blockchain Engineer*

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👤 Profile

Innovative and passionate **Senior Blockchain Engineer** with **+7 years** of experience in **designing, developing** and **testing** various kinds of blockchain projects and technologies. Participated in developing **smart contracts, web3 frontend** and **backend** of several aspects of blockchain world such as **Defi, NFT marketplaces, Web3 games, DAO, Wallets**. Designed and Implemented the **infrastructure components** of **Rollups, Cross-Chain Solutions** and **Decentralized Identity**.

🧠 Skills

Blockchain Knowledges

Bitcoin, Ethereum, Solana, Cosmos Ecosystem, Polkadot, Polygon, Arbitrum, Optimism, Zircuit, Zetachain, PBFT, Tendermint, PoW, PoS, PoA, PoH, Cryptography, Zero-Knowledge Proofs

Languages

Solidity, Rust, Go, JavaScript, TypeScript, PHP, Python,

Frontend Technologies

React.js, Vue.js, Next.js, Redux, Material UI, Tailwind CSS

Databases

MySQL, MongoDB, SQLite, PostgreSQL

Blockchain Frameworks and Standards

Hardhat, Truffle, Foundry, Terraform, OpenZeppelin, Ethers.js, Web3.js, Cosmos SDK, CosmWasm, Anchor, Substrate, Biconomy SDK, ERC20, ERC721, ERC1155, ERC777, ERC4337, ERC-4626. EIPs,

Testing Tools

Slither, MythX, wasmd, Cypress, Jest, Mocha, Chai

Backend Technologies

Node.js, Express.js, Django, Laravel, GraphQL

DevOps

Docker, Kubernetes, AWS, GCP

📁 Professional Experience

Senior Blockchain Engineer, Lit Protocol 🔗

09/2022 – 01/2025

- Participated in developing **SSI wallet** and **Issuer Node** for **Decentralized Identity** by leveraging **Privado ID SDK** and **threshold cryptography**.
- Designed and implemented **smart contract wallet, bundler** and **paymaster** component of an **account abstraction platform** based on **ERC-4337** by using **Solidity, Go** and **TypeScript**.
- Applied **Omni-Chain Smart Contract** mechanism of **Zetachain** to **cross-chain asset transfer** and **message passing** providing advanced **interoperability** of blockchain ecosystem.
- Participated in the design and development of custom modules of **crypto economic** system using **Cosmos SDK(Golang)**.
- Developed **multi-chain web3 gaming platform** by integrating web3 frontend, backend side and smart contract side using **Typescript, Node.js, Solidity** languages and **ERC20, ERC721** tokens..

- Leveraged **Multi-Party Computation(MPC)** technology for signing **cross-chain transactions** and **user operations**.
- Developed **bridge contracts** of **Cross-Chain NFT marketplaces** with **Solidity**.
- Implemented containerized environments using **Docker** and **Kubernetes** for blockchain nodes, enhancing network **reliability** and **scalability**.

Senior Blockchain Developer, Juno Network

01/2021 – 07/2022

- Contributed to the development of a **hybrid rollup sequencer** by combining **zk-proof** generation and instant submitting for enhanced **security** and **scalability** with **Rust**.
- Developed and deployed **CosmWasm** smart contracts on Juno Network, optimizing **gas efficiency** and ensuring **secure cross-chain interactions**.
- Implemented **governance** mechanisms and **DAO** frameworks enabling decentralized decision-making and community participation.
- Optimized **validator node** operations and **DevOps pipelines** improving uptime and network reliability.

Blockchain and Web3 Full-Stack Developer,

11/2018 – 12/2020

Inverse Finance

- Developed and deployed **secure smart contracts** for **DeFi lending, borrowing, and yield farming** protocols using **Solidity** and **Rust**.
- Implemented advanced **tokenomics** and **staking mechanisms** for governance tokens, enhancing liquidity and incentivizing participation.
- Designed a **robust oracle architecture** using **Chainlink** to ensure reliable price feeds for **DeFi lending** and **synthetic assets**.
- Automated contract deployment and monitoring workflows using **Hardhat, Foundry, and Terraform** for seamless protocol upgrades.
- Developed **front-end applications** integrated with Inverse Finance's **smart contract architecture** by using **Typescript, Ethers.js** and **Web3.js**.
- Participated in developing smart contracts for **DEX, trading bots** using **Solidity** on **Ethereum**.
- Integrated and Tested web3 frontends and smart contracts of **NFT auction platform** by using **Hardhat, Cypress** and **Jest**.
- Conducted **security audits** and optimized smart contracts for **gas efficiency**, reducing transaction costs for users across the protocol.

Full-Stack Developer, Intellectsoft

05/2017 – 10/2018

- Developed responsive and user-friendly web applications using **React, Next.js, and TypeScript**.
- Developed **Single Page Applications (SPAs)** with optimized state management using **Redux** and **Vuex**.
- Created reusable UI components with **Tailwind CSS, Material UI** for consistent design systems.
- Built scalable **RESTful** and **GraphQL APIs** using **Node.js, Express, and NestJS**.
- Implemented **server-side rendering (SSR)** and **static site generation (SSG)** using **Next.js** and **Nuxt.js**.
- Designed and optimized database schemas using **PostgreSQL, MySQL, and MongoDB**.
- Developed and deployed full-stack applications using **Docker, Kubernetes, and AWS**.

Education

Bachelor's Degree, Aalborg University

04/2014 – 03/2017