

HARRY SMITH

BLOCKCHAIN & WEB3 ENGINEER



bravetiger0000@gmail.com



Aurakatu 7 9, 20100 Turku, Finland

About Me

A seasoned, detail-driven Blockchain & web3 engineer with 8+ years of experience designing and building web applications and sites. Adept at contributing to a highly collaborative work environment, finding solutions, and determining customer satisfaction. Eager to tackle more complex problems and continue to find ways to maximize user efficiency.

Experience

Striga

01/2023 - present

Blockchain & web3 engineer

- Participated in the entire software development lifecycle for building **crypto-banking infrastructure**.
- Designed and developed a **Defi platform** and **DEX** utilizing **Solidity**, **Rust**, and **TypeScript**, integrating core Defi protocols.
- Built an automated **trading system** using **UniswapV3**, which allows users to generate passive income by exploiting price differences transparently.
- Developed a **cross-chain bridge solution**, allowing users to easily move cryptocurrencies and tokens between Ethereum and other blockchains.
- Designed and developed **account abstraction wallets** for social recovery and gasless transactions using the **ERC-4337** standard and **EIP-712**.
- Developed **crypto exchange wallet** and implemented on/off ramping solution by integrating it and payment gateways.
- Built **CI/CD pipelines** for testnet and mainnet deployments using **AWS CloudFormation**, **Terraform**, and **GitHub action**.
- Implemented unit, integration, and fuzz **testing** and audited other's smart contracts.

Enso

06/2021 - 12/2022

Blockchain & Full Stack Engineer

- Involved in **abstracts** all smart contract interactions on **Rollups**, **AppChains**, and **blockchains** using **Solidity** and **Go**.
- Developed a **unified Defi API** that enables you to conveniently interact with all Defi primitives.
- Contributed to the development of a scalable **Layer-1** blockchain platform using **Tendermint Consensus**, **IBC**.
- Designed and implemented the **Tokenomics models** for Enso token in the tendermint-based network.
- Implemented **Cross-Chain purchase**, and swap functionalities by using **CCIP/CCTP protocols**.
- Developed **frontend** and **backend** for the **web3site** using **React.js(Next.js)**, **GraphQL**, **Node.js**, **MongoDB**, **Web3.js**, **Ethers.js** and **Hardhat** framework.
- Integrated and implemented Web3 analytics tools, such as **The Graph**, to monitor and analyze user behavior and transaction data, enabling data-driven decision-making and continuous improvement.
- Developed and implemented **comprehensive test suites** for smart contracts and web applications using **Jest**, **Echidna**, and other testing frameworks.

Aion Sigma

03/2019 - 05/2021

Full Stack & web3 engineer

- Built a Bank as a Service and **Crypto Payment Gateway** system from scratch using **React.js**, and **Node.js** leveraging a **microservices architecture**.
- Took part in developing **smart contracts**, **frontend**, and **backend** for several DApps like **NFT marketplace** and **Web3 Games** utilizing **Solidity**, **React.js**, **Node.js**, **Web3.js**, **Ethers.js**, etc.
- Effectively utilized **IPFS** for securely storing and distributing immutable data across the network, ensuring the integrity and reliability of the decentralized applications.
- Implemented **proxy patterns** for upgradable smart contracts and best practices in **gas optimization**.
- Collaborated with the **DevOps** team and constructed an **automated CI/CD pipeline** using **GitHub Actions**, **Docker**, **Kubernetes**, and **AWS**.
- Utilized **Git** and **GitHub** for version control and code collaboration.

Besco software, Finland

02/2017 - 03/2019

Full Stack Developer

- Participated in architecting and implementing a scalable **micro-services** system leveraging **Pub/Sub** messaging to improve system flexibility, reliability, and fault tolerance.
- Implemented **server-less** architecture using **AWS Lambda**.
- Designed and implemented a **Redux-based data flow** solution that enables efficient state management and improves application responsiveness.
- Implemented authentication solutions including Single Sign-On (**SSO**) and Multi-Factor Authentication (**MFA**) leveraging **Okta & Auth0** to enhance security and user management.
- Ensured the quality and promoted the system by implementing **unit tests**, **e2e tests**, and **A/B tests**.
- Collaborated effectively with **cross-functional** teams by discussing the architect and design, documentation, and reviewing the code with each other.

IWA, Finland

10/2015 - 12/2016

Front End Developer

- Built **Res-useable components**, **Custom Modules**, Custom Directives, Pipes, and Services in **React.js**.
- Designed and built **dynamic and multi-browser compatible pages** that could be served to desktop, Tablet, and mobile users with user-friendly, pixel-perfect using **HTML5**, **CSS3**, **SASS**, **Bootstrap**, **JQuery**, and JavaScript.
- Developed new reports and chart interface components using **High Charts**, and **Ajax API**.
- Had responsible for the design and development of the web pages from mock-ups.
- **Optimized** CSS and HTML code to reduce load time.

Expertise

Languages - Solidity, Rust, Go, Python, Javascript, Typescript, C++

Blockchain - Hardhat, Truffle, Foundry, Fuzz, Slither, Mythx, L2 Rollup, ERC standards, LayerZero, CCIP, DID/SSI, Zero Knowledge, Account Abstraction, Cosmos SDK, Cosmwasm, Anchor, IPFS, NFT

Web3 Libraries - Web3.js, Ethers.js, Rainbow, Wagmi

Fullstack - React.js, Next.js, Node.js, Nest.js, GraphQL MySQL, PostgreSQL, MongoDB

DevOps - Docker, Kubernetes, ArgoCD, AWS, GCP, GitHub Actions, GitLab CI/CD, Terraform, Ansible

Education 2011 - 2015 Aalto University , Finland Bachelor's degree of Computer Science