

James Anderson

Sr. Web3 Full Stack Developer

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Skills

Solidity, JS/TS, React.js,
Web3.js, Ethers.js, Node.js,
Golang, Rust, AWS, GCP,
CI/CD, Docker, Kubernetes,
CosmWasm, Move, TON
smart contract

Education

Bachelor's Degree of Computer Science,
University of Helsinki
2012 – 2016

Professional Experience

Web3 Fullstack Engineer, *Liv.IT International* 📍

2020 – present

Smart Contract / Solidity Side

- **Designed and implemented a custom ERC-4626-compliant vault contract** for yield aggregation, integrating with multiple lending protocols (Aave, Compound, Yearn) to optimize APY, with automated rebalancing and on-chain reporting.
- **Developed and audited a decentralized options trading protocol** using Solidity, including custom AMM logic for options pricing, settlement, and margin management, with comprehensive unit and integration tests using Hardhat and Foundry.
- **Integrated Chainlink VRF and price oracles** into DeFi smart contracts to enable secure, tamper-proof randomness and real-time asset pricing for a decentralized lottery and synthetic asset platform.
- **Implemented upgradeable proxy patterns (UUPS, Transparent Proxy)** for smart contracts using OpenZeppelin libraries, enabling seamless contract upgrades and state migrations without downtime.
- **Wrote and optimized gas-efficient Solidity code** for a multi-token staking contract, reducing transaction costs by 30% through assembly-level optimizations and batch processing of user actions.
- **Conducted formal verification and fuzz testing** of smart contracts using tools like Echidna and MythX, identifying and mitigating reentrancy, overflow, and access control vulnerabilities.
- **Built and managed a secure multisig treasury contract** (Gnosis Safe integration) for DAO governance, including custom modules for proposal execution and on-chain voting.

Fullstack / Frontend & Backend Side

- **Developed a React/Next.js-based DeFi dashboard** that interacts with Ethereum smart contracts via ethers.js and wagmi, providing real-time portfolio analytics, transaction history, and on-chain notifications.
- **Implemented wallet connection and transaction signing** using WalletConnect, MetaMask, and Coinbase Wallet, with custom hooks for handling network switching and user authentication.
- **Built a Node.js/Express backend service** for off-chain data aggregation (APY, TVL, historical prices) and caching, exposing RESTful APIs consumed by the frontend and supporting subgraph queries via The Graph.
- **Integrated Layer 2 solutions (Arbitrum, Optimism)** into the dApp, enabling users to bridge assets and interact with contracts on multiple networks, with dynamic network detection and UI updates.
- **Set up continuous integration and deployment pipelines** (GitHub Actions, Vercel, Hardhat scripts) for automated contract deployment, frontend builds, and end-to-end testing on testnets and mainnet.
- **Implemented advanced analytics and charting** using D3.js and Chart.js, visualizing protocol metrics such as liquidity, volume, and user growth, with data sourced from on-chain events and subgraphs.

- **Developed a custom notification system** using webhooks and push notifications (EPNS integration) to alert users of important events such as liquidations, governance proposals, and yield changes.

Web3 Fullstack Developer, Tocos

2018 – 2020

- Built **web3** applications(dapps) using **Solidity, Nuxt.js, Vue.js, Web3.js** and **ethers.js** with hardhat.
- Used **Nest.js(Node.js framework)** and **MongoDB** for building complicated backend systems.
- Participated in the design and development of a **Decentralized Environment Management** Platform with 160k monthly active users.
- Proposed an innovative solution for gas-optimization and saved a total of 100k dollars.
- Launched a permissioned private EVM network using **Geth** node and managed the integration to the healthcare platform.
- Developed a **wallet** application and a chain explorer using **React** and **Java**.
- Designed and developed a **microservice**-based architecture using **AWS Lambda** and a highly scalable notification system using **Kafka**, resulting in improved reliability and reduced downtime.
- Developed **Go-based** blockchain API service for fetching data from multiple blockchain platforms.

Web3 Full Stack Developer, Nuah

2016 – 2018

- Participated in development of an Ethereum-based Game NFT marketplace project using a range of technologies including **Solidity, Web3.js, Ethers.js and Hardhat**.
- Participated in building a Liquidity-mining **DeFi** platform.