

Artur Dranhoi *Senior Blockchain & Web3 Engineer*

✉ artur.dranhoi1025@gmail.com

📍 Helsinki, Finland

Profile

A seasoned professional with over 7+ years of **commercial** experience in the blockchain and Web3 space, this individual brings a wealth of expertise in developing sophisticated smart contracts using **Solidity** and **Rust**. Their extensive background includes working on **cross-chain NFT** projects, **Chain Abstraction** for **DeFi** and **DEX** platforms, implementing **Layer 2 (L2) rollup** solutions, and pioneering the development of an **DID/SSI** wallet for **blockchain verification** systems utilizing **zero-knowledge proofs**. Additionally, they have demonstrated proficiency in **account abstraction** wallets, showcasing their ability to innovate within the rapidly evolving blockchain landscape.

Skills

Languages

Solidity, Rust, Go, JavaScript, TypeScript, Python, C++

Blockchain Area

DID/SSI, Zero-Knowledge Proofs (zkSnark, zkStark), L2 Rollups (zkRollup, Optimistic Rollup), MEV, Tokenomics, P2P messaging

Frameworks and Libraries

Blockchain / Hardhat, Truffle, Foundry, Ethers.js, Web3.js, OpenZeppelin, ERC standards, EIPs, Mythx, Slither, Fuzz Testing, Echdina Fullstack / React.js, Next.js, Node.js, Express.js, Nest.js, MongoDB, MySQL, PostgreSQL, AWS, GCP, Lambda, Microservice.

Professional Experience

Lead Blockchain Engineer

08/2022 – 03/2024

SigmaSolve [🔗](#)

- **Architected, developed, tested, audited** and **deployed 20+** smart contracts to various blockchain networks including Ethereum, Arbitrum, Optimism, Polygon, Solana chain with using **Solidity/Rust/Go/JS/TS** and **Hardhat/Foundry**.
- Designed and developed **DEX** specific **L1 network** based on **CosmosSDK** and **CometBFT** with cross-chain functionality by utilizing **Chain Abstraction** technology across **EVM** chains, **Bitcoin**, and **Solana**.
- Participated in developing **DID/SSI** wallet using **Zero Knowledge** in compliance with **OpenID** standards (OID4VCI, OID4VP, etc).
- Worked with diverse **L2 scaling solution** like **SideChain**, and **Rollups**. Especially with **zkRollup**, and **Optimistic Rollups**, preparing for deployment, operation, debugging, and enhancement activities for efficiency, scalability and security.

- Took part in developing **Account Abstraction** wallet using Biconomy SDK based on **ERC-4337** standards for a Gaming project, resulting in improvement of **user experience** and allow web2 users to play web3 games without knowledge of web3.
- Implemented and **Robust Round Robin** consensus mechanism as a module to **hyperledger besu**.
- Effectively managed a **distributed scrum team** of 3 members using agile techniques.

Web3 & Smart Contract Developer

04/2019 – 12/2021

Fractal [↗](#)

- Participated in development of an Ethereum based Game **NFT marketplace** project using a range of technologies including **Solidity, Web3.js,** and **Hardhat**.
- Effectively utilized IPFS for securely store and distribute immutable data across the network, ensured integrity and reliability of the decentralized applications.
- **Expanded** the area of the NFT marketplace from Ethereum to all **EVM networks,** and **Solana** chain by providing **Cross-Chain** functionality with **LayerZero** protocol.
- Implemented **Cross-chain purchase,** and **swap** functionalities by using **CCIP/CCTP** protocols.
- Used ERC-20, ERC-721(A), ONFT-721, and ERC-1155 token standards for widely adopted implementation.
- Implemented best industrial practices in **Gas optimization,** resulting in significant cost savings.

FullStack Developer

06/2017 – 02/2019

Orbital [↗](#)

- Developed a **Crypto Payment Gateway** system from **scratches** with using React.js, Node.js, and Python based on **Microservice** architecture.
- Used AWS **Lambda** for **serverless** architecture.
- Used **MySQL** and **MongoDB** for database of **multi-tenant** architecture system.
- Used **Docker** and **Kubernetes** for containerization and scaling solution.
- Utilized AWS services like API Gateway, ECR, EC2, SNS, SQS, Cloud Formation and other services to create a cloud-native architecture.

Education

Bachelor's degree of Computer Science

University of Helsinki