Lorran Sutter
Senior Senior Software Engineer

SUMMARY

- Expertise in designing upgradeable smart contracts using the diamond pattern and UUPS proxies, managing 180k+ NFTs, and securing $2M+ in tokens with gas-optimized staking and vesting contracts.
- Proficient in Go, TypeScript, and Solidity, developing backend services, TypeScript SDKs, and cross-chain token bridges (Polygon, Ethereum, Base, Solana).
- Skilled in integrating Uniswap V3 oracles, building metatransaction flows, and automating multisig treasury operations with Node CLI tooling.
- Strong background in blockchain security, performing audits, vulnerability analysis with MythX and Slither, and implementing best practices before mainnet releases.

TECHNICAL SKILLS

Main Technical Skills	Solidity (3 yr.), Go (3 yr.), TypeScript (3 yr.), Python (6 yr.), Smart Contract (3 yr.)
Programming Languages	C#, Go (3 yr.), JavaScript, Python (6 yr.), Solidity (3 yr.), TypeScript (3 yr.)
JavaScript Libraries and Tools	Ethers.js, Web3.js
.NET Platform	.NET
JavaScript Frameworks	Node.js, React
Databases & Management Systems / ORM	PostgreSQL, SQL
Cloud Platforms, Services & Computing	AWS
Blockchain and Decentralized Software	Avalanche, Chainlink, DeFi, ERC-20, Ethers.js, EVM, Foundry (3 yr.), Hardhat (3 yr.), NFT, Polygon, Smart Contract (3 yr.), Solana, Staking, Truffle, Uniswap, Viem, Web3
Deployment, CI/CD & Administration	CI/CD
Scripting and Command Line Interfaces	CLI
QA, Test Automation, Security	Debugging, Performance Testing, QA Automation
Virtualization, Containers and Orchestration	Docker (3 yr.), Kubernetes

Version Control	Git, GitHub, Github Actions
Mail / Network Protocols / Data transfer	JWT
SDK / API and Integrations	JWT
Other Technical Skills	Backend, Base, Dashboard, InterPlanetary File System, MythX, Proxies, Quality Assurance, Slither, Software Development, test coverage, TypeScript SDK, Web Development, Wormhole

WORK EXPERIENCE

Senior Software Engineer - DIMO (On-chain Vehicle Mobility Protocol and Related Blockchain Infrastructure)

Duration: Mar 2022 – Present

Summary:

- Development and deployment of upgradeable Solidity smart contracts for a vehicle mobility protocol involving NFT minting and token staking
- The project includes cross-chain token deployment and integration with decentralized finance protocols and price oracles to support on-chain operations

Responsibilities:

- Designed and deployed upgradeable smart contracts using the diamond pattern and UUPS proxies.
- Implemented staking and vesting contracts securing over 25M tokens with gas optimization and security best practices.
- Automated treasury operations as a Gnosis Safe multisig signer with Node CLI tooling.
- Deployed cross-chain ERC20 tokens and bridged assets to Solana via Wormhole.
- Integrated Uniswap V3 price oracles for real-time token pricing.
- Created and maintained a TypeScript SDK for internal and external integration.
- Built metatransaction flows and smart-account signature support for secure user interactions.
- Developed backend services in Go for IPFS document validation and secure user access.
- Collaborated with external auditors to complete security reviews and implement recommendations.

Technologies: Solidity, UUPS proxies, diamond pattern, Node.js CLI, ERC20, Polygon, Ethereum, Base, Solana, Wormhole bridge, Uniswap V3, TypeScript, viem, ethers.js, ZeroDev, Go, IPFS, JWT, Gnosis Safe multisig

Smart Contract Engineer - Upstate Interactive (DeFi Protocols)

Duration: Sep 2020 – Mar 2022

Summary:

- Development of decentralized finance protocols on the Avalanche blockchain integrating liquidity, pricing, and interest generation services

- The project focused on building secure and well-tested smart contracts to support DeFi functionalities

Responsibilities:

- Built DeFi protocols integrating Uniswap V2, Chainlink, and Compound.
- Achieved 100% unit test coverage to prevent regressions.
- Performed security analysis using MythX and Slither to identify and fix vulnerabilities before deployment.

Technologies: Solidity, Avalanche, Uniswap V2, Chainlink, Compound, MythX, Slither

Student Tutor & Blockchain Intern

Duration: Oct 2020 – Dec 2020

Summary: Supported full-stack development courses as a tutor and developed an Ethereum-based game prototype along with a ReactJS streaming dashboard during a blockchain internship.

Responsibilities:

- Supported Full Stack Development I-IV courses by assisting students with assignments and debugging.
- Led development of an Ethereum game prototype.
- Built a ReactJS streaming dashboard.

Technologies: Ethereum, ReactJS, JavaScript

Junior Software Developer - Relevo (QA Automation, Web Crawlers, and Performance Testing)

Duration: 2018 - 2019

Summary: Worked on quality assurance automation, web crawler development, and performance testing to support software development and data collection efforts.

Responsibilities:

- Developed QA automation scripts and tools.
- Created web crawlers for data extraction.
- Conducted performance testing to ensure software reliability.

Web Development Intern - Thomson Reuters (LegalOne Software Maintenance)

Duration: 2017

Summary: Maintained and supported LegalOne software, a legal practice management solution, focusing on bug fixes and feature enhancements.

Responsibilities:

- Maintained LegalOne software.
- Performed bug fixes and minor feature development.

Technologies: C# .NET, SQL

EDUCATION

- **Advanced Certificate in Blockchain Development**
  George Brown College, GPA: 3.93 / 4.0
  Completed December 2020
- **Bachelor of Engineering, Computational Engineering**
  Federal University of Juiz de Fora, Brazil
  Completed July 2018
- **Bachelor of Science, Exact Sciences**
  Federal University of Juiz de Fora, Brazil
  Completed July 2018