Navina Lang

SENIOR PROTOCOL ENGINEER · DEFI · SOLIDITY · SMART CONTRACT ARCHITECTURE

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Remote / US/EU timezones · Open to Relocation

$7M+	4	10+	90%+	9	20-30%
TVL SECURED IN PRODUCTION	EVM CHAINS & PROTOCOL VERSIONS	DEFI PROTOCOLS INTEGRATED	TEST COVERAGE CORE CONTRACTS	AUDITS LED	GAS COST REDUCTION

SUMMARY

Founding Protocol Engineer with **3+ years** of end-to-end ownership over production DeFi smart contracts. Delivered battle-tested, multi-audited protocol infrastructure managing **$7M+ TVL** across Ethereum, BNB Chain, Base, and Arbitrum. Expert in smart contract architecture, security-by-design, and systematic gas optimization. Operated simultaneously as first technical hire, audit lead, and team mentor - from blank file to mainnet across **4 production releases (v1–v4)**.

PROFESSIONAL EXPERIENCE

Founding Protocol Engineer (Solidity)

Feb 2022 – Aug 2025

VELVET.CAPITAL · REMOTE

Core DeFi protocol ownership from architecture through 4 audited releases (v1–v4), securing $7M+ TVL across 4 EVM chains.

ARCHITECTURE & DEVELOPMENT

- Architected the **core tokenization mechanism**, representing users' proportional shares as tradeable index tokens across a non-custodial on-chain asset management platform
- Designed and deployed **production-grade, multi-audited smart contracts** across **4 EVM chains** supporting **$7M+ TVL**
- Implemented **UUPS proxy patterns** - making security-critical upgradeability vs. immutability architecture decisions
- Implemented **EIP-1167 Minimal Proxy (Clone)** pattern, reducing deployment costs by **~90%** for early protocol versions; later migrated to **ERC1967Proxy** architecture to enable upgradeability and modular system evolution.
- Achieved **20–30% gas cost reduction** through systematic Solidity optimization on high-frequency operations

DEFI INTEGRATION & CROSS-CHAIN

- Integrated and maintained **10+ third-party DeFi protocols** (DEXs, lending, staking) across deposit, withdrawal, rebalancing, and yield optimization
- Integrated **Chainlink Oracles** for slippage control, index token pricing, and performance fee calculation; later **redesigned oracle dependency in the fee module** from price feeds to ratio-based accounting, expanding supported token universe beyond Chainlink-listed assets
- Architected **multi-ecosystem bridging infrastructure** via deBridge - EVM-to-EVM and EVM-to-Solana transfers

SECURITY & QUALITY

- Led full security ownership across **9 audit cycles** (PeckShield, Cantina, Hats Finance and others) - coordinated engagements, remediated all critical findings before every mainnet release
- Built comprehensive test suites achieving **90%+ code coverage** across core contracts using Hardhat and Foundry
- Implemented **Safe multi-sig vault integration** for protocol treasury security; served as a **multi-sig signer** with direct custody responsibility over protocol funds

LEADERSHIP

- **First technical hire** - shaped product architecture, engineering standards, and technology stack from day one
- Served as **Scrum Master**; mentored junior engineers and built a collaborative, security-first culture

TECHNICAL SKILLS

BLOCKCHAIN
Solidity, EVM, Hardhat, Foundry, UUPS Proxies, EIP-1167, ERC1967Proxy, Gas Optimization

DEFI
DEX Integration, Chainlink Oracles, deBridge, Lending, Staking, Yield

SECURITY
Auditing, Reentrancy Guards, Access Control, Pause Mechanisms, Multi-sig

DEV
TypeScript, JavaScript, Git, Unit/Integration/ Fuzzing Tests, Agile

CHAINS
Ethereum, BNB Chain, Base, Arbitrum

EDUCATION

B.Sc. Information Systems
Technical University of Munich (TUM)
Oct 2016 – Sep 2020

LANGUAGES

German - Native
English - Full Professional

Software Development Intern

Mar 2021 – Aug 2021

MSG SYSTEMS · MUNICH, GERMANY

- Developed Open-Source Compliance strategy, reducing legal risk exposure across software supply chain
- Built prototype web application for automated OSS license compliance checks

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Bachelor’s Thesis & Working Student

Feb 2020 – Sep 2020

MSG SYSTEMS · MUNICH, GERMANY

Thesis: Design of a System to Support OSS License Compliance in Large Enterprises

- Analysed OSS license texts and developed a scientific compliance evaluation methodology
- Implemented algorithm calculating the legal status of OSS component usage, reducing legal review time