

Kumar Satyarth

Senior Smart Contract Engineer

SUMMARY

- DeFi-focused Smart Contract Engineer with 5+ years of experience in designing, deploying, and maintaining Ethereum mainnet and L2 protocols, including Liquid Restaking and AMM-based money markets.
- Expertise in Solidity, Foundry, Hardhat, and security tools (Slither, Echidna) with hands-on experience in proxy patterns, ERC-20/ERC-4626 standards, and upgradeable vault architectures.
- Proficient in backend development using Node.js, TypeScript, Python, and subgraphs (The Graph) to enhance protocol UX and operational efficiency.
- Implemented CI/CD pipelines with Tenderly, CircleCI, and GitHub Actions, reducing contract failure rates by 40% and withdrawal processing time from 20 to 1 day.

TECHNICAL SKILLS

Main Technical Skills	Solidity (5 yr.), Foundry (3 yr.), Node.js (3 yr.), TypeScript (3 yr.), Python (3 yr.)
Programming Languages	Python (3 yr.), Solidity (5 yr.), TypeScript (3 yr.)
Python Frameworks	Django REST framework (3 yr.)
JavaScript Frameworks	Node.js (3 yr.)
PHP Libraries and Tools	Phalcon (3 yr.)
Data Analysis and Visualization Technologies	Decision Tree (5 yr.)
Security	IT security audits (5 yr.)
Cloud Platforms, Services & Computing	AWS (3 yr.)
Deployment, CI/CD & Administration	CI/CD (3 yr.)
Virtualization, Containers and Orchestration	Docker (3 yr.)
QA, Test Automation, Security	e2e testing (5 yr.), Unit Testing (5 yr.), Usability tests (5 yr.)
Blockchain and Decentralized Software	ERC-1155 (5 yr.), ERC-20 (5 yr.), Foundry (3 yr.), Hardhat (3 yr.)
Methodologies, Paradigms and Patterns	FDD (3 yr.)

Operating Systems	Firmware upgrades (5 yr.)
Version Control	Github Actions (3 yr.)
SDK / API and Integrations	GraphQL (3 yr.)
Other Technical Skills	Blender 3D (3 yr.), Slither (3 yr.)

WORK EXPERIENCE

Smart Contract Developer - Puffer Finance (Liquid Restaking Protocol and Institutional Vault)

Duration: June 2024 - Present

Summary:

- Development and deployment of Puffer Finance's native Liquid Restaking Protocol (nLRP) and Institutional Vault to enable institutional staking with stable APR
- The protocol supports multi-chain restaking flows integrated with EigenLayer and AVS, aiming to optimize liquidity and validator operations in the DeFi space

Responsibilities:

- Developed and deployed smart contracts for the Liquid Restaking Protocol.
- Designed and implemented the Institutional Vault for institutional staking.
- Created a permissioned validator flow for internal validators without bonds.
- Integrated restaking flows with EigenLayer and AVS support.
- Built subgraphs and backend services to enhance user experience and operational efficiency.
- Established automated CI/CD testing pipelines using Tenderly, CircleCI, and GitHub.

Technologies: Solidity, Foundry, Tenderly, CircleCI, GitHub Actions, subgraphs (The Graph), Node.js, TypeScript

Smart Contract Developer - Timeswap Labs (DeFi Lending and AMM-based Money Market Protocol)

Duration: May 2021 - June 2024

Summary:

- Contributed to the development of a decentralized finance protocol focused on lending and borrowing on Ethereum, including an automated market maker (AMM) based money market
- The project aimed to provide efficient and secure financial services on-chain with backend support and SDK development

Responsibilities:

- Developed and tested smart contracts and deployment scripts.
- Assisted in building AMM-based money market protocol.
- Supported backend systems using Django.
- Contributed to SDK development and subgraph creation.

Technologies: Solidity, Hardhat, Django, Python, subgraphs (The Graph), SDK development



Freelance Blockchain Developer (Various DeFi and NFT Projects)

Duration: January 2022 - Present

Summary:

- Provided freelance development services for multiple decentralized finance and NFT projects, including DAO governance, liquidity mining mechanisms, and NFT marketplaces
- Delivered backend integrations and smart contract maintenance to support project goals

Responsibilities:

- Built and maintained smart contracts for DeFi and NFT projects.
- Developed DAO governance and liquidity mining mechanisms.
- Implemented backend integrations using Node.js and related tools.

Technologies: Solidity, Node.js, TypeScript

EDUCATION

- **Bachelor of Information Technology**
Dr. APJ Abdul Kalam University, India
2018 - 2022

CERTIFICATION

- **Technical Head, DSC-WOW**
Organized a national-level hackathon with 10,000+ registrations for workshops and 5,000+ for the hackathon.
- **Public Speaker**
Delivered technical talks and workshops at national conferences, including DevFest New Delhi & Noida.
- **Hackathon Leadership**
Organized over 50 technical events, including workshops and hackathons for the developer community.

