Arpit Satpute

Blockchain Developer

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Versatile Blockchain Engineer & Smart Contract Architect Specialized in designing and delivering secure, high-performance Solidity protocols for DeFi and decentralized marketplaces — spanning yield optimization, lending, NFT ecosystems, and on-chain trading venues.

TECHNICAL SKILLS

Language: Java • JavaScript (ES6+) • Python • SQL • HTML • CSS • TypeScript
Smart Contracts: Solidity • Foundry • OpenZeppelin • Access Control
Token Standards: ERC-1155 • ERC-4626 • ERC-721 • EIP-712 • ERC20
Frontend Web3: Wagmi • Viem • React • React Native • Next.js • RainbowKit • Tailwind CSS • Bootstrap
Backend & Infra: Node.js • Spring Boot • PostgreSQL • MongoDB • Redis • Docker • ZKP • IPFS • Polygon(Layer 2)

PROJECT

VERIMINT | https://verimint.vercel.app <u>Github</u> | *July 2025*

Decentralized e-commerce marketplace transforming online shopping through ERC-1155 NFTs, smart contract escrow, and Lit Protocol encryption for secure, privacy-first physical and digital product transactions on Ethereum Blockchain

- Built a **full-stack Web3 marketplace** enabling secure trading of physical and virtual products as **ERC-1155 NFTs with Lit Protocol encryption** for delivery addresses, ensuring **end-to-end privacy protection**.
- Developed Solidity contracts implementing **escrow-based payment system** with automatic fund release, and time-locked address decryption with **7-day merchant access windows**
- Integrated **Lit Protocol** for decentralized encryption with **zero-knowledge proof commitments,** on-chain access logging, and **automatic buyer refund mechanisms** for unmet decryption deadlines**.**
- Built a high-performance **React + Wagmi/Viem** dApp and a robust merchant dashboard for inventory, sales.

INSIGHT-YIELD | https://insight-yield.vercel.app <u>Github</u> | *Oct 2025*

Autonomous DeFi liquidity engine that harnesses off-chain predictive intelligence and on-chain cryptographic proofs to continuously redirect capital toward the highest-yielding opportunities.

- **Designed** a modular **ERC-4626 Vault system** on **Polygon** enabling automated yield strategies and composable integration with DeFi protocols.
- **Built** a **custom Python AI engine** performing real-time **risk scoring, APY prediction, and optimal allocation** generation models.
- **Implemented** an **EIP-712** verification flow ensuring all AI recommendations are authenticated and tamper-proof on-chain.

ACHIEVEMENTS

- **Technex Hackathon- 1st Runner-Up** (Jan 2025): Secured 1st Runner-Up for the LeafLink platform out of 600+ participants at St. Vincent Palloti College of Engineering.
- **Enkryptia Hackathon- 2nd Runner-Up** (Oct 2024): Developed the mentorship platform, earning 2nd Runner-Up among 25+ teams at Government Polytechnic, Nagpur.

EDUCATION

B.Tech in Computer Science *2022–2026*
J D College of Engineering and Management, Nagpur *CGPA : 9.57*

SOFT SKILLS

- Critical Thinking • Collaboration • Communication • Problem Solving • Time Management • Leadership • SDLC