

# Ayush Popat

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## SUMMARY

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DeFi protocol engineer building AMM, stablecoin, and autonomous execution systems on the Ethereum Virtual Machine (EVM). Selected for Uniswap Foundation Hook Incubator Cohort #9 and Blok Capital Cohort #1 with strength in Solidity, Foundry fuzz and invariant testing, EIP-2535 Diamond Proxy architecture, and smart contract security.

## EDUCATION

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**The LNM Institute of Information Technology**  
*Bachelor of Technology in Computer Science & Engineering*

Jaipur, Rajasthan  
Aug 2023 - May 2027 (*Expected*)

## EXPERIENCE

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**Uniswap Foundation Hook Incubator**  
*Selected Builder*

Apr 2026 - Present  
*Cohort #9*

- Researching liquidity provider (LP) protection for tokenized securities with regime-aware dynamic fees, order-flow toxicity detection, gap-capture auctions, and circuit breakers for Uniswap v4 automated market maker (AMM) pools.

**Blok Capital**  
*Protocol Contributor*

Feb 2026 - Present  
*Cohort #1*

- Implementing upgradeable smart contract modules with EIP-2535 Diamond Proxy facets, factory and registry patterns, and Chainlink CRE orchestration for an onchain wealth management protocol as part of Blok Capital's inaugural cohort.

**Yellow Network Acceleration Program**  
*Selected Builder*

Feb 2026 - Mar 2026

- Built and shipped Kartfall to mainnet, an onchain game with ERC-7824 state channels for low-latency settlement and integrated prediction markets; reached final demo day.

## PROJECTS

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**StockShield Protocol** (*Uniswap v4 Hooks, Solidity, State Channels, ENS, Foundry*)

2026

- Built a liquidity provider (LP) protection hook for tokenized securities with regime-aware dynamic fees, order-flow toxicity detection, gap-capture auctions, and circuit breakers for Uniswap v4 automated market maker (AMM) pools. Demo: [ethglobal.com/showcase/stockshield-eth-2wuvy](https://ethglobal.com/showcase/stockshield-eth-2wuvy)

**OhMySwarm** (*LangGraph, Solidity, Aave V3, x402 USDC Payments, Next.js*)

2026

- Built an autonomous decentralized finance (DeFi) execution system with LangGraph orchestration, Aave V3 integration, x402 USDC micropayments, and deterministic policy checks. GitHub: [github.com/ayush18pop/OhMySwarm](https://github.com/ayush18pop/OhMySwarm)

**Overcollateralized Stablecoin** (*Solidity, Foundry, OpenZeppelin*)

2025

- Built overcollateralized stablecoin smart contracts with mint and burn flows, auction-based liquidations, reentrancy protection, and Foundry unit, fuzz, and invariant tests. GitHub: [github.com/ayush18pop/stablecoin](https://github.com/ayush18pop/stablecoin)

## OPEN SOURCE CONTRIBUTIONS

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- **Jenkins** – Built parameter-aware next-execution tooling and merged pull requests #199, #200, and #195.
- **OpenCut and libp2p** – Contributed React and TypeScript editor improvements to OpenCut and added dial fallback to peer routing in libp2p.

## SKILLS

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**Languages:** Solidity, TypeScript, JavaScript, SQL, Java, C

**Blockchain:** Ethereum Virtual Machine (EVM), Foundry, Hardhat, OpenZeppelin, Uniswap v4 Hooks, Chainlink, EIP-2535 Diamond Proxy, ERC-20, ERC-721, ERC-7824, Ethers.js, Wagmi, The Graph

**DeFi and Security:** Automated market makers, liquidity provider protection, stablecoin design, smart contract testing, fuzz testing, invariant testing, gas optimization, reentrancy protection, DAO governance

**Full-Stack:** Next.js, React, Node.js, PostgreSQL, Prisma ORM, REST APIs, Git, Docker, GitHub Actions, CI/CD

## ACHIEVEMENTS

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**Uniswap Hook Incubator Cohort #9** selected builder (Apr 2026) | **Yellow Network** semifinalist (2026) | **Monad Blitz** first place and \$500 prize (Aug 2025) | **Synaphack 3.0** fifth place, top 0.5% (Aug 2025)