

AMAN KUMAR | Smart Contract Developer

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EXPERIENCE

Independent Web3 Security Researcher

Mar 2026 – Present

- CodeHawks public contest (BattleChain Confidence Pools) – reported **1 Medium, 1 Low** finding [Report](#)
- Private **Uniswap v3 integration** audit – **3 Critical, 3 High, 3 Medium, 4 Low** findings
- Worked on BLOKCapital's entire price-feed oracle structure, ensuring it was bug-free – fixed 2 bugs: stale price feeds & missing L2 sequencer checks [Post](#)

Digichain ([Bima Labs](#) – [DeFi Protocol](#)) | Smart Contract Developer

Aug 2024 – Aug 2025

- Implemented **UUPS upgradable smart contracts** using the Succinct Protocol to enable on-chain verification of off-chain zero-knowledge proofs (ZKPs) [View Code](#)
- **LayerZero v2** – configured messaging, DVN and Foundry script for debugging and testing [View Scripts](#)
- Integrated **Chainlink CCIP** to enable lock/unlock mechanism for cross-chain transfers of USBD, and documented a comprehensive README guide [View Guide](#)
- **PSM** – implemented core logic, wrote unit and fuzz tests in Foundry, raising **code coverage to >95%** [PR #130](#)
- Optimized Hardhat deployment scripts and added **automated contract verification** as part of the deployment process, enabling **one-command deployment + verification** [PR #132](#)

PROJECTS

Talon | Solo | Solidity | Foundry | [Live App](#) | [Demo](#) | [GitHub](#)

Aug 2026

- Designed the **end-to-end architecture** – dashboard, chain indexer, batch orchestrator & A-Pass poller feeding two Solidity contracts on Monad testnet
- On-chain transfer agent for **Cleanverse-verified RWAs** – pays compliant holders directly, escrows (never forfeits) reverted ones, using the A-Token's own revert as the compliance check
- Integrated **6 live Cleanverse CVI/CVA endpoints** – distinguishes frozen, expired & no-pass revert reasons on-chain, none mocked
- **90 Foundry tests** (unit, fuzz, cross-contract invariants) proving solvency; validated with a live smoke test moving real aUSDC

HACKATHONS

Swarm Escrow | Solo | Won #3 (BOT Chain, AI Agent Track) | [GitHub](#) | [Live Demo](#) | [Demo Video](#)

- **Multi-agent 2-of-3 quorum** decides fund release; disputes escalate to a Senior Arbiter
- **83/83 Foundry tests passing** (72 unit, 9 fuzz, 2 invariant), Slither clean

FutureStack Gen AI Hackathon | Solo | [GitHub](#) | [Live Demo](#) | [Demo Video](#)

- My Invoice NFT - **full-stack NFT invoice DApp** with tested, gas-optimized Solidity contracts
- **AI-assisted** frontend integrated with IPFS & Polygon chain

TECHNICAL SKILLS

Languages : Solidity, Java, Python, JavaScript, Rust (Basic)

Standards : ERC-20, ERC-721, ERC-4626, ERC-7540, EIP-1167

Protocols : Uniswap, Chainlink, LayerZero, UUPS

Tool & Testing : Foundry, Slither, Hardhat, Unit Testing, Fuzz Testing

EDUCATION

- Government Engineering College Khagaria | B.Tech | CSE (IoT) | 2022–26 | CGPA: 8.85

ACHIEVEMENTS & CERTIFICATIONS

- Won 1st prize in Ideation Challenge organized by Department of Industries in college
- Won 1st prize in a college debate competition at AIXPO 2026
- Blockchain and Its Application | NPTEL | May 2025 | [Certificate](#)