Aryan Kaushik

Smart Contract Engineer – Governance, Risk & On-chain Coordination

Delhi, India | mail.aryankaushik@gmail.com | +91 79826 56751
GitHub • LinkedIn • X • Website

Summary

Smart Contract Engineer focused on DAO governance systems, staking logic, and protocol-level coordination. Experienced in designing gas-efficient governance mechanisms, building production-grade smart contracts with Foundry, and analyzing decentralized infrastructure behavior. IEEE-published researcher with hands-on experience across governance design, validator analytics, and on-chain coordination under real-world constraints.

Technical Skills

Core Blockchain: Solidity(Advanced), **Foundry**, HardHat, **DAO Architecture**, Governance Systems, **Staking** and Voting Logic, ERC-20/ERC-721 Standards, On-Chain Coordination, Ethereum, Sepolia Testnet, **IPFS**
Supporting & Analytics: JavaScript, React, Node.js, Wagmi, **Python**, Data Analysis & Simulation, SQL (Postgres, MySql), SQLite, Git, **Linux**, Vercel, Postman

Selected Projects

Reactive Governance (2025) - *GitHub*

Designed a novel "reactive snapshot" governance model addressing the DAO trilemma of scalability, gas efficiency, and security. Reduced governance gas costs by ~40% compared to ERC20Votes through on-demand balance recording. Implemented a comprehensive Foundry test suite simulating multi-user proposal lifecycles and governance edge cases.

DAElect - DAO Governance App (2025) - *GitHub*

Built a modular DAO framework enabling ERC-20 token creation, time-locked staking, and weighted proposal voting. Designed contracts for extensibility and governance flexibility. Deployed and tested end-to-end on Sepolia with a React + Wagmi frontend.

pNode-Scope – Validator Analytics Dashboard (Superearn Bounty) (2025)

Developed a real-time analytics dashboard for Solana pNode validators using a recursive peer-discovery crawler. Collected and aggregated node-level CPU/RAM metrics across multiple RPC endpoints, implemented fault-tolerant fallbacks, and visualized network topology and live gossip activity. Designed simulation mode to support hosted environments without direct node access.

DKP - Decentralised Knowledge Proof (2025) - *GitHub*, *Live*

Built a decentralized system for information submission, verification, and curation using IPFS for storage. Designed a Proof-of-Knowledge reputation mechanism to improve Sybil resistance and incentivize high-quality contributions. Integrated smart contracts with a React-based frontend.

Experience

Prolific Technologies - Freelance Algorithmic Trading Developer (Jul 2024 – Dec 2024)
- Built and automated rule-based and ML-assisted trading systems for Futures & Options markets
- Integrated statistical signals with execution logic, focusing on reliability, monitoring, and risk controls, Gained experience with real-time data pipelines, system failures, and low-latency decision systems.

JK Tyre - Data Science Intern (Jul 2023 – Aug 2023)

Conducted consumer behavior analysis and developed a sales forecasting model using public datasets. Supported data-driven decision-making for business planning

Orbo.ai - Machine Learning Intern (May 2023 – Jun 2023)

Built CNN-based emotion detection models using transfer learning (TensorFlow)

Education

MCA - Vivekananda Institute of Professional Studies (2026)   CGPA: 8.5
BCA - Amity University, Noida (2024)   CGPA: 8.03
12th (CBSE) - Mamta Modern Sr. Sec. School (2021)   84.25%

Leadership, Achievements & Certifications
- **Technophilia - Technical Event Lead & Community Organizer (2021 – Present)**:
  - Co-founded and organized a large-scale inter-school technical competition during COVID, coordinating sponsors, logistics, and fully remote execution via Discord.
  - Led event operations, pre-qualification rounds, and judging across web development, media, and gaming tracks.
  - Continued as a core contributor for 3+ years, supporting offline judging, online qualifiers and event operations.
- **Winner - Project Concave 2025 (VIPS TC Placement Cell):** Awarded 1st Prize for presenting DKP - Decentralised Knowledge Proof.
- **ATSTP Startup Incubation Program (Web3 Track)** - Selected among **20 students out of 2300+** under the Amity Talent Search and Training Program for Web3 prototype development.
- **Top 5 Finalist - Intel Deep Learning Hackathon** - Built a trading analytics system analyzing real-time news and charts for sentiment-based predictions.
- **Alchemy University** - EVM Chain Certification
- **Code Eater** - Blockchain Bootcamp (Beginner to Advanced)