

Ansh Mehta

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Education

Vellore Institute of Technology, B.Tech in Computer Science and Engineering

Sep 2022 – Jul 2026

- GPA: 9.10/10
- Technical Head at IEEE-Computer Society

Technical Skills

Languages: Python, C, C++, Java, JavaScript, TypeScript, Solidity

Frameworks: React.js, Next.js, TailwindCSS, Three.js, Node.js, FastAPI, Flask, OpenCV

Tools: Git, Docker, Postman, Firebase, AWS

Databases: SQL, MongoDB, DynamoDB

Blockchain: Solidity, Hardhat, Foundry, Ethereum

Experience

Software Development Engineer Intern, Amazon – Bengaluru, Karnataka

Jan 2026 – Current

- Contributed to **Amazon Buddy**, a multi-agent orchestration platform on Amazon Pay that automates cross-team operational investigations using a hub-and-spoke architecture with Supervisor and Domain Specialist agents.
- Engineered distributed agent workflows leveraging AWS Bedrock, Lambda, and cross-account IAM roles to query siloed data sources (Kibana, DynamoDB, CloudWatch) without centralizing sensitive data, achieving 98% precision on UPI escalation resolution.
- Built reusable CDK constructs for agent infrastructure (knowledge bases, action groups, data source accessors), reducing new automation setup from 8 weeks to 2 weeks and eliminating duplicate development effort across teams.

Software Developer Intern, XDC Network – Dubai, UAE

Jun 2024 – Jul 2024

- Engineered Solidity smart contract dApps with cross-functional teams, implementing secure testing protocols via Hardhat and Foundry on Ethereum testnets.
- Specialized in DeFi protocol analysis, focusing on yield farming and liquidity pools.

Projects

ScriptSync

Apr 2024

- Engineered a multithreaded video translation pipeline with GPU-accelerated OCR, intelligent frame difference detection, and OpenCV processing (thread-safe caching, fuzzy text matching, visual text replacement), reducing overhead by 60%.
- Secured 1st place at VIT Central Hackathon with a production-ready system enabling real-time translation for 150+ languages and seamless visual text replacement.
- **Technologies:** Python, OpenCV, EasyOCR, Threading, Google Translate API, FFmpeg

LocalBlockchain

Github Link

- Architected a Proof-of-Work blockchain from scratch using C++17 and OOP principles, implementing SHA-256 mining, cryptographic hashing, Merkle Trees, and an HTTP server backend to process 100+ transactions with 35% faster verification.
- Developed an Electron.js/React.js frontend with 6 interactive components for blockchain data visualization
- **Technologies:** C++17, Visual Studio IDE, OpenSSL 3.0, HTTP/REST APIs, Electron.js, React.js

Achievements

- Won 1st place at VIT Central Hackathon by developing **ScriptSync**, a video translation tool using computer vision.
- Earned 2nd place at Code4Change Hackathon for developing **ForReal**, an audio and image deepfake detector service.
- Achieved 3rd place at DevJams by creating **StoryScape**, a GenAI-powered tool converting text stories into audio-visual experiences.