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 Developer Intern, XDC Network – Dubai, UAE

Jun 2024 – Jul 2024

- Engineered Solidity smart contract dApps with cross-functional teams.
- Established secure smart contract testing protocols using Hardhat and Foundry on Ethereum testnets.
- Analyzed DeFi protocols, specializing in yield farming and liquidity pools.

Projects

LastLink Backend|Frontend

- Built a link-in-bio platform enabling users to share a single personalized URL containing all their social and web links.
- Developed a FastAPI backend with DynamoDB and Boto3 for scalable user and link data management.
- Created a responsive frontend using Next.js and TailwindCSS with real-time analytics and QR code generation.
- Technologies: FastAPI, DynamoDB, Boto3, Next.js, TailwindCSS

ScriptSync Apr 2024

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

LocalBlockchain Github Link

- Architected Proof-of-Work blockchain from scratch with C++ and OOP principles, implementing 12+ classes.
- Programmed SHA-256 mining algorithms, cryptographic hashing, and Merkle Trees reducing verification time by 35%.
- Developed backend C++ executable processing 100+ transactions that communicates with frontend via HTTP server architecture.
- Created intuitive Electron.js/React.js interface with 6 components for visualizing and interacting with blockchain data.
- 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**, an innovative 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.
- Organised HackBattle, a successful hackathon engaging 600+ participants.