ROHAN REDDY

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PROFESSIONAL SUMMARY

Detail-oriented and self-motivated Computer Science undergraduate with hands-on experience in **blockchain, full-stack web development, and deep learning**. Skilled in building scalable **decentralized applications, RESTful systems, and real-time AI solutions**. Adept at optimizing system performance, applying cryptographic security, and delivering measurable outcomes. Seeking to contribute to **innovative software teams** where performance, security, and user experience are priorities. Seeking to contribute to innovative software teams as a Software Engineer / AI Engineer.

EXPERIENCE

Innominds (Hyderabad – Remote) — *Software Engineering Intern* **Aug 2025 – Nov 2025**

- Built prototype projects on LangChain and Agno agent frameworks, enabling AI-driven workflows.
- Designed and deployed **modular components** that reduced integration time by ~25%.
- Collaborated in an **Agile team environment**, participating in code reviews and sprint planning.
- Continuing to build robust, scalable, and innovative solutions for biggest IT Sectors.

PROJECTS

Blockchain-based Data Integrity System (DISAC) | C++, OpenSSL, Crow, SQLite3

- Developed a **blockchain-based credential verification system**, improving validation speed by **93%** compared to manual checks.
- Built secure backend using **C++ and OpenSSL**, implementing **digital signatures** and cryptographic hashing.
- Designed REST APIs for real-time credential queries, reducing query latency to **<200ms**.

Online Calculator Web App | HTML5, CSS3, JavaScript

- Built a responsive **cross-browser calculator** with full keyboard support, deployed on **GitHub Pages**.
- Reduced error rate by handling **10+ edge cases** (e.g., division by zero).
- Optimized JavaScript functions to improve calculation speed by **30%**.

Video Frame Interpolation Using Deep Learning (RIFE) | PyTorch, OpenCV, CUDA

- Implemented a **deep learning model** for video frame interpolation, achieving **89% prediction accuracy**.
- Accelerated processing using **CUDA-based GPU optimization**, enabling real-time performance at **30+ FPS**.
- Applied **optical flow and temporal modelling**, reducing motion blur by **40%**.

Blockchain Rock-Paper-Scissors DApp | Solidity, Hardhat, Web3.js, MetaMask

- Developed a decentralized **fair-play game** deployed on the **Polygon Mumbai Testnet**.
- Executed **smart contracts** ensuring transparent outcomes with cryptographic randomness.
- Integrated **Web3.js and MetaMask**, supporting **100+ concurrent wallet connections** in testing.

CERTIFICATIONS & ACHIEVEMENTS

Certification: NPTEL – Python for Data Science (Score: 72%)
Certification: Infosys Springboard – Cloud Computing, Architecting Cloud Solutions on Azure
Hackathon: Flipkart GRiD 6.0 – National-level participation
Achievement: Science Olympiad – District 3rd Rank
Assessment: Naukri.com NCAT – Scored 27,404

TECHNICAL SKILLS

Programming Languages: Python, C++, Solidity, JavaScript
Web Technologies: HTML5, CSS3, React, Web3.js
Blockchain: DApps, Solidity, Polygon Testnet, Smart Contracts
Tools & Platforms: Git, VS Code, PyCharm, Draw.io, Docker (basic), Ollama/LMStudio
AI/ML: PyTorch, OpenCV, CUDA, Deep Neural Networks
Development Practices: REST APIs, Agile, Version Control, Unit Testing

EDUCATION

B.E. in Computer Science – Vemana Institute of Technology 2022 – 2026