ROHAN REDDY

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PROFESSIONAL SUMMARY

Detail-oriented and self-motivated Computer Science undergraduate and tinkerer with hands-on experience in **blockchain, full-stack web development, deep learning, and building Custom PC's**. 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, and seeking to contribute to **innovative software teams** where performance, security, and user experience are priorities.

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 the 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 a 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**.

Portfolio-Website | HTML5, CSS3, JavaScript, React, Node.js + Express, WebSockets, CloudFlare Tunnel
 - Built a **React + TypeScript portfolio** with Tailwind CSS and Wouter, ensuring full mobile/desktop responsiveness.
 - Integrated **PostgreSQL backend** via Drizzle ORM + Express for dynamic, secure content management.
 - Used **WebSockets + TanStack Query** for real-time updates, cutting fetch latency by **35%** vs REST.

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%**.

Neo AI Assistant project | Python, PostgreSQL, LangChain/Agno, LMStudio
 - Built a **PostgreSQL memory module** to retain conversational context, cutting repeated prompts by **40%**.
 - Integrated **LM Studio API** for real-time responses with **<200 ms latency** on 90%+ of queries.
 - Automated unit & integration tests with **85%+ coverage**, reducing bugs by **60%** pre-deployment.

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