

# 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, 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