

SYED MOHAMMAD RIZWAN

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Profile

Software engineer who builds AI agents and full-stack products that hold up in real use: multi-agent systems that keep working when a model fails, retrieval that cites its sources, and assistants that act only after the user confirms.

Skills

- **Languages:** Python, TypeScript, JavaScript, Java, SQL · **Concepts:** Data Structures, Object-Oriented Programming (OOP), Database Management Systems (DBMS)
- **AI and LLMs:** Large Language Models (LLMs), LangGraph, multi-agent systems, Retrieval-Augmented Generation (RAG), Pinecone, tool calling with Groq, OpenAI and Gemini, model fallbacks
- **Web and data:** FastAPI, Node.js, Express.js, Spring Boot, React, Next.js, React Native, PostgreSQL, Supabase, MongoDB
- **Cloud and DevOps:** Azure App Service, Azure Functions, Azure OpenAI, Azure DevOps, Azure SQL, Power Platform, Docker, GitHub Actions, Git
- **Security:** web application Vulnerability Assessment and Penetration Testing (VAPT), Nessus, Burp Suite, Wireshark

Experience

Associate Software Engineer (R&D) — *Novulis Consulting, Bengaluru* Jun 2026 – Present

- Research and evaluate emerging technologies; build prototypes and proofs of concept to validate new product ideas.
- Build scalable full-stack applications on Azure (App Service, Functions, Azure OpenAI, SQL) and Power Platform.
- Work with cross-functional teams through code reviews, testing and continuous improvement.

Software Engineering Intern (R&D) — *Novulis Consulting, Remote* Mar 2026 – May 2026

- Worked with the R&D team on full-stack development and AI prototypes; converted to a full-time role in June 2026.

Cyber Security Intern (Web Application VAPT) — *Supraja Technologies, Vijayawada* Jun 2025 – Sep 2025

- Performed web application vulnerability assessment and penetration testing, finishing with a project.
- Ran security assessments and threat analysis with the team, using Nessus, Burp Suite and Wireshark.

Projects

FinBoom — *offline-first net-worth tracker* · github.com/rizwan2004cs/finboom 2026

- Assistant turns speech or text into one validated action, saved only after the user confirms; no model database access.
- Next.js, React, TypeScript PWA with an offline queue on Supabase (row-level security); 129 commits, GitHub Actions CI.

CCR Compliance Advisor — *RAG agent for California regulations* 2026

- Async crawler (Crawl4AI) collected 74,975 of 74,997 regulation sections (99.97%), with checkpoints so a crash resumes.
- Pinecone retrieval (top 8); answers only from retrieved sections, one citation per claim; Streamlit and Groq on Render.

Health-care Application — MERN-stack hospital system: patient records, appointments, multi-role access.

Keylogger — security research project on how keystroke-logging malware works, to inform detection.

Achievements

- **Won \$115** at Superteam Capture the Flag v2 (Solana security CTF), Superteam x LocalHost, Bengaluru, Jul 2026.

Leadership

IEEE Student Branch, NBKRIST — *Finance Team Lead (2025 – 2026), Treasurer (2024 – 2025)* Feb 2024 – Jan 2026

Certifications

- SQL (Intermediate) — HackerRank
- Advanced Python: Language Features — LinkedIn Learning
- Java (Basic) — HackerRank
- Postman API Fundamentals Student Expert — Postman/LetsUpgrade
- Git and GitHub Bootcamp — LetsUpgrade

Education

B.Tech, Computer Science and Engineering — *NBKR Institute of Science and Technology* 2022 – 2026

Bachelor of Technology · CGPA 9.09, First Class with Distinction

Intermediate (MPC) — *Sri Chaitanya Jr College · CGPA 9.72* 2020 – 2022

SSC — *Himalaya E.M. High School · Marks 593/600* 2020