

EDUCATION

Dr B R Ambedkar National Institute of Technology Jalandhar

Bachelor of Technology - Information Technology

2022 – Present

CGPA: 8.35 (Top 5%)

EXPERIENCE

Microsoft

Software Engineering Intern

June 2025 – August 2025

Bangalore, India

- Automated Static Analysis:** Developed **RAG-based workflows** to automatically generate pull requests that identified and fixed potential **nullptr dereferences**, **memory leaks**, and generated **unit tests** for low-level GPU code. Detected and resolved over **90 null pointer dereferences** and **85 memory leaks**.
- Unit Test Integration:** **Integrated** AI-generated unit tests into the existing codebase with CI pipelines, ensuring clean builds and test coverage.

Open Food Facts

Open Source Contributor

Feb 2025 – June 2025

Remote (Docs)

- CI/CD Automation:** Integrated **GitHub Actions** for **Dependabot**, **semantic PRs**, **auto-assignment**, and **TS linting** to streamline development.
- Feature & Infra Contributions:** Created **Knowledge Panel UI** with lit, enhanced Docker setups, improved docs and API consistency.

Freelancing

Global Psychological Services

Oct 2024 – Jan 2025

Remote (Demo)

- Drishti Assessment Platform:** Built and deployed a psychometric career guidance platform featuring **RIASEC**, **DISC**, **MBTI** tests, serving **2,500+ users** with automated personalized report generation.

HACKATHON WINS AND ACHIEVEMENTS

- HackTU 6.0: 2nd Runner-Up & Best Gen AI** — **ZingGuru**: RAG-powered learning platform (**5000+** participants)
- Electothon 7.0: Best MongoDB Use** — **JIVA**: AI-driven healthcare system (**4550+** participants)
- Hack CBS 7.0: TON Track Winner** — **IPFS-based decentralized ML training system** (**4400+** participants)
- Vulnerability Report:** Discovered and responsibly reported **critical auth vulnerabilities** in the **NITJ Placement Portal** and **5+ vulnerabilities** in the **Hostel Management System**.

PERSONAL PROJECTS

Dhaniverse — Gamified Financial Literacy RPG

GitHub — Live Demo — Video (YouTube):

- 2D open-world RPG that teaches personal finance through interactive gameplay and real-life money simulations
- Built with **React**, **Phaser 3**, **Deno**, **MongoDB**, and real-time multiplayer via **WebSockets**
- Features **chunked maps**, **WebGL optimization**, and blockchain-backed **on-chain banking & leaderboards** using **ICP**
- Designed for students and young professionals with freemium access, in-game purchases, and curriculum use cases

DevMux

GitHub — Live Demo — Video (YouTube):

- Full-stack **collab platform** with **video calls**, **code editing**, and **whiteboarding** via **Next.js**, **TS**, **Tailwind**
- Real-time sync via **LiveKit** and **CodeSandbox**; backend powered by **Prisma & PostgreSQL**

Zing Guru

GitHub — Live Demo — Video (YouTube):

- AI-powered **learning ecosystem** with **personalized study paths**, **gamified modules**, and **24/7 AI doubt resolution** (**ZingSensei**)
- Built with **React.js**, **Node.js**, **LangChain**, **OpenAI**, **PostgreSQL**, and **Redis**; supports multilingual, accessibility-first learning

TECHNICAL SKILLS

- Languages:** C++, C, JavaScript, TypeScript, Python, Java
- Development:** React.js, Next.js, React Native, TailwindCSS, Node.js, Express.js, HonoJS, FastAPI, WebSockets
- Databases & ORMs:** PostgreSQL, MongoDB, MySQL, Prisma, Redis, FAISS Vector Store
- DevOps & Tools:** Git, GitHub, Docker, AWS, Azure, Kubernetes, Figma, Google Colab
- AI/ML & Frameworks:** LangChain, Streamlit, NumPy, Pandas, TensorFlow, OpenAI API, Ollama, Groq API
- Relevant Coursework:** DSA, OOP, DBMS, OS, CN, AI/ML, SE

CODING PROFILES AND CERTIFICATIONS

- LeetCode:** Solved **815+** problems with a peak rating of **1774+**
- CodeChef & CodeForces:** **3-Star** (1648) on CodeChef and **Pupil** (1237) on CodeForces with **200+** problems solved
- GeeksforGeeks:** Solved **300+** algorithmic problems
- Web Development + DevOps Certification:** Completed via 100xDevs (link) — Full-stack, CI/CD, and deployment
- Machine Learning Specialization:** Stanford & DeepLearning.AI on Coursera: (link)

LEADERSHIP EXPERIENCE AND CLUBS

- Core Member, GDG on Campus:** Led **5+ workshops**; mentored **30+** in web dev
- Student Coordinator, Cybernauts & CR IT'26:** Organized **hackathons** with **200+ participants**
- Team Lead, WDMC Team D:** Built NITJ's **official web app**, leading a **team of 5**