Vedant Vardhan Rathour

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WORK EXPERIENCE

Rigelx Infotech (*June 2025 – October 2025*)
Software Engineer Intern

- Developed secure **REST APIs** for a Warehouse Management System using Java and **Amazon RDS**, enabling real-time inventory tracking across 20+ warehouses.
- Designed and optimized relational database schemas with SQL, implementing role-based access control and query optimization to ensure data integrity, performance, and secure multi-user operations.
- Developed a responsive and interactive music website for a popular band using **Next.js** and **Tailwind CSS**, featuring dynamic hero banners, band member profiles, and real-time Instagram integration.
- Implemented adaptive layouts, smooth animations, and optimized performance across devices, ensuring a visually engaging and consistent user experience aligned with the design specifications.

TechOTD (*October 2025--Present*)
Software Engineer Intern

- Developed a responsive React + Tailwind frontend for a multi-country study abroad platform with dynamic filtering, multilingual UI, and content-driven pages.
- Built key React Native app interfaces for digital gold trading, including authentication, dashboard, transactions, and payment flows.
- Contributed to frontend modules for a Django-based volunteer management system, creating responsive pages and interactive dashboards using Bootstrap and Chart.js.

EDUCATION

SRM University *Graduation Date: June 2025*
BTech in Computer Science Engineering (7.8 CGPA)

- Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems and Computer Networks

PROJECTS

Reducto

- Developed a **React**-based web app integrating TextRank and SingleRank NLP algorithms to automatically summarize articles from user-provided links.
- Implemented a **ROUGE-L** based benchmarking pipeline to evaluate and optimize summarization performance through iterative testing, achieving a 30% gain over the baseline.
- Improved prompt understanding through effective data modeling, resulting in a 92% response accuracy rate.

AI Fusion

- Built an Android app in Kotlin integrated with a Python FastAPI–based **serverless** backend, delivering AI-driven functionality and real-time response generation.
- Integrated text-to-image AI generation using deep learning APIs, empowering users to convert text prompts into dynamic visual content within the app.

Custom Tezz

- Engineered a prompt-to-design web application that enables users to customize 3D T-shirt models using **natural language prompts** for an intuitive and interactive design experience.
- Integrated OpenAI's API to dynamically manipulate and render 3D models, allowing users to visualize real-time updates on the T-shirt design.
- Optimized the frontend with responsive design using media queries, ensuring seamless performance and consistent user experience across all devices.

SKILLS

Programming Languages: JAVA | C | Python | C++

Development: React | HTML | TailwindCSS | Node | React-Native

Framework: Express

Database : SQL | MongoDB