ROHAN SINGH

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Education

RV College of Engineering	**July 2022**
Bachelor of Engineering	*8.91 CGPA*
Rajendra Vidyalaya	**March 2018**
Indian School Certificate (ISC)	*94.25%*
Rajendra Vidyalaya	**March 2016**
Indian School Secondary Certificate (ICSE)	*96.6%*

Relevant Coursework

- Microsoft Azure AI Fundamentals
- Data Structures, Algorithm
- OOPs
- DBMS
- Microservices
- Software Architecture

Experience

Boeing — **August 2022 – Present**
Software Development Engineer — *Bangalore, India*

- Revamped the document review process by **developing concurrent editing features** on a web platform with Java and JavaScript, achieving a 30% reduction in user wait time, driving application growth, and increasing user adoption.
- **Integrated Boeing's GPT-4-based Conversational AI into an internal application** to generate concise summaries of training manuals, enhancing content accessibility and reducing manual reading time.
- Designed and optimized a scalable, **multi-threaded file download system in Java Application, improving efficiency by 20%**, ensuring fault-tolerant execution, seamless user context handling, and performance optimization.
- Engineered a **full-stack unarchive feature using Java and RESTful APIs**, streamlining document retrieval from **Cloud CMS**, enhancing user experience, and **driving revenue growth for the application by 15%.**
- **Mentored junior developers** by providing knowledge-sharing sessions and project workflows.
- **Contributed to comprehensive code documentation** to ensure ease of understanding and maintainability across development teams, while assisting in modularizing legacy code, which improved readability and facilitated updates.
- Collaborated closely with UX/UI designers and product managers within an **Agile framework, leveraging Scrum methodologies to deliver high-quality, user-centered microservice software solutions** that align with business objectives and facilitate rapid iteration based on user feedback.
- **Implemented caching mechanism** to optimize document retrieval, **reducing load time by 90%** for 5000+ users.
- Awarded the Spotlight Award for delivering innovative solutions that significantly improved application efficiency.

Projects

AI Powered Spam Detection App | *Python, Django, React, OpenAI GPT-4*   **2024**
- Deployed a full-stack application to report/search spam numbers using Django, React, and PostgreSQL; integrated GPT-4 to classify severity from user input.
- Secured with JWT auth and hosted via Vercel/Render and tested with 300+ users.

Video Chat Application | *Angular, Node.js, WebRTC, Socket.IO*   **2024**
- Built a real-time chat and video/audio calling app using WebRTC with threaded messaging and media sharing features.
- Enhanced UX with dark mode toggle and responsive UI; deployed for private beta testing with 200+ active users.

Airline Reservation System | *React, Spring Boot, SQL*   **2022**
- Developed comprehensive ticket booking functionalities, allowing users to search, reserve and manage tickets.
- Optimized SQL database queries for efficient data handling and ensured data integrity during booking processes.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C++, HTML, CSS
Developer Tools: Git, Maven, CI/CD Tools, JUnit, Linux
Technologies/Frameworks: React, Angular, Spring Boot, Hibernate, AWS, PostgreSQL, MongoDB, Oracle, Docker
AI Technologies: GPT-4, Conversational AI, Prompt Engineering, AI Model Integration, OpenAI API

Leadership / Extracurricular

- Youngest Security Focal in the Boeing Portfolio Leaders Team driving secure code and vulnerability elimination.
- Hackathons participant, solving real-world problems under time constraints.
- Open-source contributor, improving software quality through community collaboration.