RAJAT VERMA

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💙 Lucknow, Uttar Pradesh

Github in Linkedin **@** Leetcode

My Portfolio

EDUCATION

Indian Institute of Technology, Mandi

B.Tech. Engineering Physics with Minor in Computer Science - 7.26 CGPA

iii Nov 2020 - June 2024

St. Antony's Inter College

XII, ISC Board - 94% | X, ICSE Board - 94%

April 2016 - March 2019

WORK EXPERIENCE

Nucleus Software - (Software Engineer)

July'24 - Present

- Collaborated with a team of engineers to develop and optimize API Integrator, integrating third-party APIs using React for the frontend and Spring Boot for scalable backend services, reducing data processing and manual intervention by 40%.
- Implemented Redis caching, improving API response time by 50%, and utilized MongoDB for flexible schema.
- Built interactive frontend components using React, TailwindCSS, enhancing API management usability and reducing errors by 30%.
- Designed and deployed a robust logging and monitoring system using Grafana and Prometheus, enabling real-time tracking. Set up real-time alerts, ensuring maximum system uptime and proactively detecting failures.
- Optimizations in the database and by **normalizing tables** and leading the migration from **Oracle SQL** to **MongoDB** for better read performance and a more flexible schema aligned with business needs.

G1 Aqua | R-Tech Systems & Services - (Full Stack Developer)

In Jan'23 - Present

- Developed and maintain the G1 Aqua website using NextJS, TailwindCSS, and ShadcnUI ensuring 100% responsive design.
- Built a **Progressive Web App (PWA)** for offline access and faster loading, caching, and enhancing user retention.
- Built sections for 30+ products, educational content, blogs and integrated an enquiry form with email notif. using Nodemailer
- Optimized performance using Google Lighthouse, improving SEO score to 95+, decreasing load times and LCP by 40%.
- Managed SEO & Ads, increasing organic traffic by 60% and improving search rankings with regular content updates.

Nucleus Software - (Software Engineer Internship)

III Jan'23 - June'23

- Developed REST APIs using Spring Boot to parse Excel and Word files with Apache POI, reducing manual data extraction time by 80%. Integrated Elastic Search with Node.js to enable fast data queries, improving search response time by 60%. Configured Spring Scheduler for bi-daily data updates, automating 500+ records processing per update. Implemented E2E testing with Cypress.
- Created UI for WiQR using React, Redux Toolkit, and TailwindCSS, improving user experience and reducing UI load time by 20%. Implemented JWT Authentication with Node.js and Express.js BCrypt.

Anaemia Mukt Bharat - (Frontend Dev Volunteer) - Govt. Of Delhi Initiative

III June'23 - July'23

- Contributed in developing the frontend for the website of Anaemia Mukt Bharat campaign using React & MUI. Built KPI dashboards.
- Integrated Map of India for data visualization, various information pages and API Integration for contact and enquiry forms.

PROJECTS

The Wild Oasis - A Client Side Rendered React App 🖸 🗹



- Built a React web app for hotel staff with Supabase for auth & CRUD, React Query for state management, Dark Mode via Context API, React Hook Form for forms, and Styled Components for UI.
- Developed an Admin Dashboard with Rechart for data visualization, plus sorting, filtering & pagination for cabins and bookings.

Adventour - A Server Side Rendered NodeJS App 🚺 🗹

- Developed a tour booking website using Node.js, Express, Mongoose, & MongoDB. Created REST APIs for tours, reviews, bookings along with MVC architecture, user authentication & authorization using JSON Web Tokens (JWT).
- Secured API Routes using Mongo-Sanitize, Helmet, XSS, HPP. Password hashing with Bcrypt and EJS as View Engine.

TECHNICAL SKILLS

- Languages : JavaScript, TypeScript, Java, Python, C++
- Libraries/Framework: React, React Native, NextJS, Express, Spring Boot, Mongoose, Hibernate, Tailwind, Prisma, Django, Flask
- Databases: MongoDB, Redis, PostgreSQL, MySQL, Elastic Search
- Others: NodeJS, SQL, PL/SQL, SASS, CSS, Git & Github, Docker, Supabase, Firebase, Postman, VSCode, IntelliJ, Object Oriented Design

ACHIEVEMENTS

• Won 2nd Prize in AI Innovation 3.0 Hackathon - Yamaha Motor Solutions India among 40+ Teams & 4 Problem Statements. Developed a React Native mobile application enabling visually impaired users to identify surroundings through touch gestures, voice commands, and real-time audio feedback, enhancing accessibility.

POSITION OF RESPONSIBILITY

- Coordinator of DevPrompt Programming Club IIT Mandi 2023
- Web Development Co-coordinator (SNTC) Science and Technology Council IIT Mandi 2023
- Web Development Head Xpecto'23, Xpecto'22 Tech Fest | Miraz'24 Annual Fest | Volunteer Astrax'22 Astro Fest IIT Mandi