

RAJAT VERMA

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Lucknow, Uttar Pradesh

Github

Linkedin

Leetcode

My Portfolio

EDUCATION

Indian Institute of Technology, Mandi

B.Tech. Engineering Physics - 7.26 CGPA

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

- Contribute in development and maintenance of **Lending Management System (LMS)** which is built using **Spring Boot** and utilizes **Oracle SQL**, **PostgreSQL** and **Hibernate** for data management. **LMS** is for the management of Loan lifecycle.

G1 Aqua | R-Tech Systems & Services - (Software Engineer) - Father's Business

Jan'23 - Present

- Developed and maintain the G1 Aqua website using **NextJS**, **TailwindCSS** and **ShadcnUI**, featuring a **responsive design** for showcasing water and sewage treatment products and services.
- Created sections for products, educational content on water treatment chemicals, blog, enquiry form using **Nodemailer** to email details to the owner. **Manage SEO & Ads** to boost site visibility and engagement along with regular updates.

Nucleus Software - (Software Engineer Internship)

Jan'23 - June'23

- Developed REST APIs using **Spring Boot** for parsing Excel and Word files with **Apache POI**. Integrated **Elastic Search** with **Node.js** to query data and configured **Spring Scheduler** for bi-daily data updates. Conducted E2E testing with **Cypress**.
- Created UI for WiQR using **React**, **Redux Toolkit**, and **SASS**. Implemented **JWT Auth** with **Node.js** and **Express.js**.

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

June'23 - July'23

- Developed frontend for the Anaemia Mukht Bharat campaign using **React** and **CSS**. Built KPI dashboards
- Integrated Map of India for data visualization, various information pages and API Integration.

PROJECTS

The Wild Oasis - A Client Side Rendered React App

- Developed a **React** web app for hotel employees, integrating **Supabase** for user authentication and CRUD operations on cabins and bookings, including guest check-ins and check-outs. Implemented **React Query** for remote state management, **Dark Mode** with **React Context API**. Form handling with **React Hook Form** and **Styled Components** for UI.
- Created an Admin Dashboard with data visualization, including sales and stay duration statistics using **Rechart Library**, along with sorting, filtering, and 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, ExpressJS, Spring Boot, Spring MVC, Mongoose, Hibernate, Cypress, Tailwind CSS, Flutter, Pandas, Django, Flask, Numpy, Matplotlib
- Databases** : MongoDB, Redis, PostgreSQL, MySQL
- Others** : NodeJS, SQL, PL/SQL, SASS, CSS, Git & Github, Docker, Supabase, Firebase, Postman, VSCode, IntelliJ

ACHIEVEMENTS

- Won 2nd Prize in **AI Innovation 3.0 Hackathon - Yamaha Motor Solutions India** among 40+ Teams & 4 Problem Statements. I built the complete frontend (**mobile app**) in **React Native**. It is aimed to help a blind person to let them know what is around them by clicking pictures using **touch gestures & voice commands** and listening to the **audio output**.

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