

# RAJAT VERMA

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 Github

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 LeetCode

[My Portfolio](#)

## EDUCATION


### Indian Institute of Technology, Mandi

B.Tech. Engineering Physics - 7.14 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 - SDE (Internship)

 Jan'23 - June'23

- Built Rest API's using **Spring Boot** for parsing excel files and word files using **Apache POI** library. Integrated **Elastic Search DB with NodeJS** for querying NightWatcher data. Increased sources for the platform to include deployment docs, user guides, excel files. Configured **Spring Scheduler** to parse files twice a day and then upload to **Elastic search**.
- Built the UI of WiQR (a query resolution platform for Nucleus) using **React**, **Redux Toolkit** and **SASS**. WiQR is a query resolution platform having wiki as the only source of data. Built **JWT Authentication** system using **NodeJS** and **ExpressJS**. Used **Cypress** for E2E Testing.

### Svasth360 - SDE (Part Time Internship)

 Apr'23 - June'23

- Developed Rest API's in **Node & ExpressJS** for Appointment booking and integrated mailing service using **Nodemailer** and mobile app UI using **React Native** for the HealthCare Startup Funded by Catalyst IIT Mandi.
- Built Svasth360 website using **NextJS** and integrated prebuilt services like **authentication**, doctors and patients dashboard, appointment booking, profile management.
- Integrated **Video Call** feature using **Agora SDK** in **NextJS** app for patient and doctor on demand video communication and booking video call appointments.

## PROJECTS

### The Wild Oasis - A Client Side Rendered React App

- Developed a **React** based Web App for hotel employees, with user authentication and authorization through **Supabase**, including **CRUD** operations on cabins and bookings (including check-in and check-out guests)
- Utilized **React Query** for remote state management and integrated Dark Mode feature via **React Context API**.
- Built an Admin Dashboard featuring insightful data visualization, including **Statistics for 7, 30 and 90 days**, Pie chart, and Area chart for sales and stay duration using the **Rechart Library**.
- Employed **React Hook Form**, **Styled Components** and **React Router** to optimize form handling, enhance styling, and enable seamless navigation within the app.
- Cabins and Bookings page includes **filters** with booking status, discounts etc. with **sorting** items and **pagination**.

### Adventour - A Server Side Rendered NodeJS App

- A fictional Tour booking website made with **NodeJS**, **Express**, **Mongoose & MongoDB**.
- Built the **REST API** for CRUD operations on tours, reviews, bookings including user authentication and authorization. The **SSR** app implements **MVC architecture** with **EJS** as the template engine.
- Modules such as **Mongo-Sanitize**, **Helmet**, **XSS**, **HPP** are used to prevent attacks, **Bcrypt** for storing hashed password, **JWT** for stateless authentication are also used in the app.

## TECHNICAL SKILLS

- Languages** : JavaScript, TypeScript, Java, Python, C++
- Libraries/Framework** : React, React Native, NextJS, ExpressJS, Spring Boot, Mongoose, Cypress, Tailwind CSS, Flutter, Pandas, Django, Flask, Numpy, Matplotlib,
- Databases** : MongoDB, Redis, PostgreSQL, MySQL
- Others** : NodeJS, SASS, CSS, ShadCN UI, SQL, Git & Github, Docker, Supabase, Firebase, Postman, VSCode

## POSITION OF RESPONSIBILITY

- Coordinator of DevPrompt - Programming Club IIT Mandi
- Web Development Co-coordinator - (SNTC) Science and Technology Council IIT Mandi
- Web Development Head - Xpecto'23, Frontend Head - Xpecto'22 Technical Fest IIT Mandi
- Web Development Team - Astrax22 - Astronomy Fest of IIT Mandi