Rahul Vij

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WORK EXPERIENCE

TAS Tech Arch Software Pvt Ltd, *SDE intern*   August 2024 − Present |Panchkula, Haryana

- **Enhanced** backend development and **resolved** 15+ critical bugs, leading to a **20% improvement** in platform stability and performance.
- Developed secure web and mobile **applications** using React.js (web), React Native (mobile), Node.js, Express.js, Spring Boot, and MongoDB/MySQL, ensuring **high performance** and scalability.
- Implemented **JWT-based authentication and authorization** using **JJWT and Spring Security**, along with **encryption and decryption techniques**, to secure user data, login credentials, and sensitive documents.
- **Integrated Elasticsearch** to **optimize** data search and retrieval, resulting in a **25% increase** in query speed and enhanced user experience.
- Integrated **Stripe payment gateway** for secure online transactions, and deployed applications using **AWS EC2**, Route 53, Apache, and **AWS RDS** for hosting and database management.

SKILLS

- **Programming Languages**: SQL, JavaScript (ES6+), Java,.
- **Web Development**: React.js, Node.js, Express.js, HTML5, CSS3, MERN (MongoDB, Express.js, React.js, Node.js
- **Backend Development**: Spring Boot, CodeIgniter, Nodejs
- **Database Management:** MySQL**,** MongoDB
- **Version Control**: Git, GitHub, Postman
- **Cloud & DevOps**: AWS
- **Software Engineering**: Strong understanding of Object-Oriented Programming, Data Structures, and Algorithms
- **Agile Methodologies**: Proficient in **Agile development** .

PROJECTS

Cumulus (Digital Locker Application)

- Built with **MERN stack & AWS**, utilizing React.js, **Node.js, Express.js, MongoDB, AWS S3** for storage, **EC2** for **hosting**, and Apache as a **web server**, with **integrations** for Google Drive, Dropbox, and Stripe.
- **Implemented JWT-based authentication** for secure user login, ensuring **100%** secure access and management for users.
- **Enabled** users to securely store files and voices, share files, and assign nominees for post-life access, improving user interaction by **40%**.
- **Testing** and **debugging**, optimizing backend queries and resolving system bottlenecks for a seamless user experience.

Employee Performance and Management System (EPM)

- **Created** and **managed** property listings, including detailed information on type, location, price, amenities, and images, improving user engagement by **40%**.
- Developed an Employee Performance & Management System using React.js, Spring Boot, and MySQL for efficient employee **tracking** and **management**.
- Designed and optimized **MySQL** database **schemas**, ensuring efficient data management, optimizing data retrieval and reducing query time by **30%**.
- Implemented a **90% secure** backend with **Spring Boot**, featuring **RESTful APIs**, **Spring Security**, and **JWT** authentication for **role-based** access control.

EDUCATION

CHITKARA UNIVERSITY, *BACHELORS OF ENGINEERING IN COMPUTER SCIENCE*	9.1 CGPA | 2021 − 2025
M.D.A.V PUBLIC SCHOOL AMBALA CITY, *10+2*	80% |2019 − 2021
DON BOSCO SCHOOL, *10th*	84.5% | 2018 − 2019

CERTIFICATES

- Participation in OTIPY hackathon