Rahul Kumar

Software Engineer

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TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, HTML/CSS, MySQL

Frameworks: Angular, Spring boot Developer Tools: Git, kubernetes, Maven

Miscellaneous: RxJS, NgRx, GraphQL, Web Design, WebSocket, RESTful APIs

EXPERIENCE

Software Engineer Netcracker Technology

Sept. 2022 – Currently

Bengaluru, India

Frontend - Angular, TypeScript

- Developed and maintained configurable messenger interface for chatbot systems, allowing dynamic customization for scenarios
- Designed and implemented **role-based chat features**, enabling tailored interactions across different user roles and portals.
- Implemented WebSocket technology to enable real-time, two-way communication between users and the chatbot, ensuring dynamic and responsive user interactions.
- Enhanced chatbot functionality by incorporating **NgRx** for state management and **RxJS operators** for streamlined asynchronous data handling.
- Delivered improved user experiences through the development of multiple theme options for the chat platform.
- Regularly optimized frontend performance by refactoring existing components, ensuring higher responsiveness and stability.

Backend - Spring Boot, Java

- Developed APIs to dynamically update chat responses based on modifications and demo requirements, allowing for real-time adjustments and customized interactions
- **Designed and optimized database queries** to support efficient data retrieval and dynamic chatbot functionality, reducing latency and ensuring smooth system performance.
- Implemented WebSocket-based real-time updates in a Spring Boot and Angular application, separating WebSocket connections from **GraphQL subscriptions** for improved maintainability and performance.
- Resolved critical backend issues, including **bug fixes**, property adjustments, and method integrations, to maintain system reliability.

Software Development Intern

Mar 2022 - Apr 2022

 $Tekatron\ Pro\ Solutions$

Bengaluru, India

- Analyzed the prior marketing campaigns of Bank using various ML techniques (Logistic Regression, Random Forests, Decision Trees, Gradient Boosting, AdaBoost) to predict customer purchase behavior for term deposits
- Evaluated model accuracy and performance using key metrics, leading to the selection of the most effective approach for predicting customer behavior

EDUCATION

SJB Institute of Technology

Bengaluru, India

B. Tech, Computer Science of Engineering - CGPA - 8.2

2018 - 2022

Projects

Movie Booking: Web Application

Angular, Spring boot

- Developed a dynamic movie booking web application using Angular for the frontend and Spring Boot for the backend, providing a seamless user experience.
- Integrated RESTful APIs to manage user authentication, movie listings, and seat selection

CERTIFICATIONS

• Participated in **Hackathon** - **Netcracker 2024** and built multi-functional web application. The project advanced to the jury round, showcasing its effectiveness