

Roshan Raj N

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EXPERIENCE

- **Quess Corp Pvt Ltd**
Software Engineer

Chennai
Oct 2024 - Present

- **Server Latency Optimization:** Optimized server latency by 45% through advanced tuning in Java Spring Boot, significantly enhancing application responsiveness.
 - **Scalable REST API Development:** Designed scalable REST APIs in Java for a Discussion Forum, utilizing design patterns, cloud technologies, and relational databases to handle high traffic efficiently.
 - **System Monitoring Implementation:** Developed a comprehensive monitoring system, tracking backend performance and system health for proactive issue detection and improved reliability.
 - **Data Search and Visualization:** Integrated Elasticsearch for efficient data indexing and real-time search, while using Kibana to create dynamic dashboards for monitoring system performance and enhancing decision-making.
- **HCL Technologies**
Software Developer

Chennai
Sep 2021 - Oct 2024

- **React Development:** Built and enhanced 5 React-based landing pages, incorporating responsive design and dynamic content rendering, leading to a 17% increase in organic traffic.
 - **Internal Tool Development:** Built internal tools that reduced deployment time by 90%, significantly increasing productivity and ensuring timely project delivery.
 - **Automation:** Implemented Test-Driven Development, creating automated test cases using Selenium to ensure high-quality, reliable software.
 - **Linux Remote Development:** Utilized Linux environments for development and deployment, optimizing workflow with bash scripting, automation, and performance tuning. Collaborated effectively in remote teams, leveraging tools like GitHub, Docker, and CI/CD pipeline tools like Jenkins to ensure seamless integration and delivery.

SKILLS SUMMARY

- **Languages:** Java, Python, C, C++, JavaScript, TypeScript, PL/SQL, Bash
- **Frameworks:** React JS, Angular, Node JS, Flask, Selenium, React Native
- **Tools:** Jenkins, Docker, Kubernetes, Oracle DB, Mongo DB, GraphQL, Elastic Stack, Kafka
- **Platforms:** Linux/UNIX, AWS, GCP, Azure

EDUCATION

- **Chennai Institute of Technology**
Bachelor Of Mechatronics Engineering; GPA: 8.7
Top 7 distinction in the state.

Tamil Nadu, India
2017 - 2021

PROJECTS

- **Real-time Oil Spill Prediction and Alert System (React.js, Python, TensorFlow, Spring Boot):** A machine learning-based application designed to predict abnormal ship behavior and provide detailed analytics. The system leverages advanced ML models for real-time prediction and alerting. Responsible for both front-end development using React.js and back-end development with Node.js, integrating RESTful APIs and Spring Boot for scalable server-side operations. Deployed with Docker for seamless containerization.
- **Sentiment Analysis Visualization Dashboard (React.js, Flask, MongoDB, Machine Learning, NGINX, MySQL):** A web application that collects real-time COVID-19-related tweets and performs sentiment analysis to track public sentiment trends. The application utilizes machine learning models for sentiment prediction with 91% accuracy. Backend powered by Flask, with MongoDB for data storage and MySQL for relational data management. NGINX used for serving the application in a production environment.
- **Friend Affinity Finder (React.js, Flask, MongoDB, Machine Learning, Maven):** A web-based solution that matches users with friends based on shared characteristics. Machine learning algorithms were trained to predict affinities with 80% accuracy and use Redux state management. The back-end was built using Flask and Maven for dependency management, with Hibernate used for ORM and efficient database handling via MongoDB.