Jay Rana

🔰 +1 (902)-989-7570 | 💌 jy834177@dal.ca | 📊 /in/jay-rana/ | 😝 /jayrana

TECHNICAL SKILLS

Languages : Java, JavaScript, Typescript, HTML5, CSS, C/C++, XML, SQL

Frameworks/Libraries: React, Django, Spring Boot, Node.js, Flask (familiar), JUnit Testing Framework

Databases : MongoDB, MySQL, PostgreSQL, DynamoDB

Tools & Technologies: AWS, Azure, Docker, Azure DevOps, GCP, Kubernetes, Git/GitLab, Jenkins, Postman, Selenium, Maven,

VS Code, IntelliJ IDE, MS Teams, Outlook, Word and Excel

: Linux Operating System, Agile methodologies, Software Development Life Cycle, CI/CD, Terraform, Concepts

SOLID Principles, Object Oriented Programming (OOP), Test Driven Development, RESTful services

GRADUATE PROJECTS

TripEase | ReactJS, Node.js, MongoDB, ExpressJS, Redux | 😯

Jan 2023 - Apr 2023

- · Created a responsive website using MERN stack and deployed this application on Netlify and Render.
- This platform enables users to plan trips, upload photos, and keep track of expenses throughout the trips.
- Enhanced User experience by developing the RESTful APIs that interact with MongoDB and provide JSON response.
- Integrated Stripe Payment Gateway for payment processing and SendGrid Email API for user communication.

TrimTrek | Java, Spring Boot, React, MySQL, JUnit 5, CI/CD, Git, SOLID |

May 2023 - Aug 2023

- Developed a comprehensive Barber Booking and Scheduling App designed to facilitate easy and efficient appointment scheduling with barbers.
- · Applied Observer, Decorator, and Factory design patterns to improve code quality and maintainability.
- Adopting a test-driven development approach with 95% code coverage.
- Tracked project progress using Git and JIRA, and managed the continuous deployment process using a CI/CD pipeline.

TriviaTitans | AWS Lambda, AWS Cognito, DynamoDB, AWS Lex, ReactJS, Node.js | 🗘

May 2023 - Aug 2023

- Developed a serverless multi-cloud online trivia game, showcasing real-time competition and progress tracking.
- Architected a microservices-based solution utilizing both AWS & GCP, demonstrating versatility in cloud platforms.
- Utilized DynamoDB for persistent storage of user and team data, ensuring data integrity and fast retrieval.
- Managed backend operations through a combination of Google Cloud Functions and AWS Lambda functions.

PROFESSIONAL EXPERIENCE

Software Development Engineer | *JPMorgan Chase & Co.*

Jun 2021 - Sept 2021

- Contributed to the development of enterprise-level applications utilizing Java-J2EE and the Spring framework, showcasing strong technical and collaborative skills.
- Implemented REST APIs within a layered Spring architecture and utilized Hibernate for database operations.
- Attained practical expertise in the application of software development methodologies, securing adherence to industry best practices and standards in software design and implementation.
- · Advanced cloud technology implementation using Docker and Kubernetes, improving deployment processes and application scalability by 40%, thereby supporting high-availability web applications for environmental research.

Web Developer | Institute of Plasma Research

Dec 2021 - May 2022

- Design and implement seamless API integrations with backend services, enhancing functionality and data flow in full-stack web applications for optimal performance.
- Implemented centralized application state management using Redux, achieving a 35% improvement in data synchronization efficiency and application state handling.
- · Fostered team excellence through targeted mentorship, streamlined code reviews for optimal quality, and strategic architectural guidance for scalable web solutions.
- Optimized web application performance through caching, code splitting, and asynchronous programming, achieving a 70% improvement in user experience for platforms disseminating environmental health information.

EDUCATION

Dalhousie University, Halifax, NS

Master of Applied Computer Science

Jan 2023 - Present CGPA: 3.8/4.3

Dharmsinh Desai University, Nadiad, Gujarat Jul 2018 - May 2022 CPI: 8.1/10.0

Bachelor of Technology in Computer Engineering