




Jay Rana

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TECHNICAL SKILLS

Languages : Java, JavaScript, Python, HTML5, CSS3, C/C++, SQL
Frameworks/Libraries : Spring Boot, NodeJS, React, Express.js, Mongoose
Databases : MySQL, MongoDB, DynamoDB
Tools & Technologies : AWS, Docker, Jenkins, Terraform, Git/GitLab, Postman, Maven, VS Code, IntelliJ IDE, MS Outlook, Word, Teams and Excel
Concepts : Agile Methodologies, SQL and NoSQL databases, Software Development Life Cycle (SDLC), Object Oriented Programming (OOP), CI/CD, Infrastructure as Code, Test Driven Development (TDD)

GRADUATE PROJECTS

- TripEase** | *React, 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 Developer** | *TechNet Consultancy (5 months remote from Canada)* June 2022 - May 2023
- Utilized Core Java in the development of enterprise-level applications, demonstrating proficiency in foundational Java concepts and object-oriented programming principles.
 - Engineered Spring Boot RESTful APIs to optimize data service interaction, seamlessly integrating MySQL databases for robust data management in client applications.
 - Employed Agile software development methodologies, using Git for version control throughout all phases of the SDLC to improve product quality and accelerate delivery.
 - Boosted understanding and application of cloud technologies, including Docker and Terraform, by 40%, facilitating scalable and secure cloud-based solutions.
- Web Developer Intern** | *Institute of Plasma Research* Dec 2021 - May 2022
- Redesigned and optimized front-end interfaces using HTML5, CSS3, and JavaScript to enhance interactivity and ensure seamless API integrations with backend services.
 - Implemented centralized application state management using Redux, achieving a 35% improvement in data synchronization efficiency and application state handling.
 - Proactively optimized code architectures, slashing load times and boosting service reliability, crucial for stellar cloud solution performance.
 - Elevate web app performance by 70% through strategic use of caching, code splitting, and async programming, markedly improving user experience across all web platforms.

EDUCATION

- Dalhousie University, Halifax, NS** Jan 2023 – Present
Master of Applied Computer Science CGPA: 3.85/4.3
- Dharmsinh Desai University, Nadiad, Gujarat** Jul 2018 – May 2022
Bachelor of Technology in Computer Engineering CPI: 8.1/10.0