Jay Rana

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TECHNICAL SKILLS

Languages	:	Java, Python, JavaScript, HTML5, CSS3, C/C++, SQL
Frameworks/Libraries	:	AngularJS, Bootstrap, NodeJS, React, Spring Boot, Express.js
Databases	:	MySQL, MongoDB, Oracle, DynamoDB, PostgreSQL
Tools & Technologies	:	AWS, Docker, Terraform, GCP, Kubernetes, Git/GitLab, Jenkins, Postman, Maven, VS Code, IntelliJ IDE, MS Teams, Outlook, Word and Excel
Concepts	:	Linux, NoSQL Databases, Agile Methodologies, Data structures and programming, Software Development Life Cycle (SDLC), CI/CD, Restful APIs, Object Oriented Programming (OOP)

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 Developer | *TechNet Consultancy*   *June 2022 - May 2023*
- 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.
- Boosted understanding and application of cloud technologies, including Docker and Kubernetes, by 40%, facilitating scalable and secure cloud-based solutions.

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.
- 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: 3.8/4.3

Dharmsinh Desai University, Nadiad, Gujarat   *Jul 2018 – May 2022*
Bachelor of Technology in Computer Engineering   CPI: 8.1/10.0