Jay Rana

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TECHNICAL SKILLS

Languages	:	Java, Python, JavaScript, Scripting Languages (Bash), HTML5, CSS, C/C++, SQL
Frameworks/Libraries	:	React, Spring Boot, Node.js, JUnit Testing framework, Mongoose
Databases	:	MongoDB, MySQL, DynamoDB
Tools & Technologies	:	AWS, Azure, Docker, GCP, Kubernetes, Git/GitLab, Jenkins, Prometheus, Grafana, ELK Stack, Postman, Selenium, Maven, VS Code, IntelliJ IDE, MS Teams, Outlook, Word and Excel
Concepts	:	Linux OS, Agile methodologies, Networking (TCP/IP, DNS, routing), CI/CD pipelines, Terraform, 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 App designed to facilitate 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.

PodcastTranscription | *ReactJS, Node.js, AWS Lambda, AWS EC2, Transcribe, CloudFormation* | ⌗   *Sept 2023 - Dec 2023*
- Revolutionized podcast transcription with a user-centric app, enhancing accessibility and deepening content insights.
- Automated deployment with AWS CloudFormation, demonstrating skills in IaC, reducing provisioning time by 20%. Managed backend with serverless functions for scalable, efficient performance.
- Deployed the frontend on AWS EC2 and managed backend processes through serverless AWS Lambda functions.
- Focused on high transcription accuracy, rapid processing speed, scalability, user-friendly interface, and cost efficiency.

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.
- Enhanced understanding of cloud technologies through coursework, excelling in a dynamic corporate setting.

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 for data synchronization with the database.
- 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