


Jay Rana

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TECHNICAL SKILLS

Languages : Java, Python, JavaScript, HTML5, CSS, C/C++, SQL
Frameworks/Libraries : Spring Boot, Node.js, JUnit testing framework, ReactJS, Mongoose
Databases : MongoDB, MySQL, DynamoDB
Tools & Technologies : AWS, Azure, Docker, GCP, Kubernetes, Git/GitLab, Jira, Postman, Selenium, Maven, VS Code, IntelliJ IDE, MS Teams, Outlook, Word and Excel
Concepts : Linux Operating System, Agile methodologies, CI/CD, Terraform, Software Development Life Cycle, SOLID Principles, Object Oriented Programming (OOP), Test Driven Development, RESTful services


GRADUATE PROJECTS

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.

PodcastTranscription | ReactJS, Node.js, AWS Lambda, AWS EC2, Transcribe, CloudFormation |  Sept 2023 - Dec 2023

- Developed a user-focused application for automated podcast transcription, enhancing accessibility and content analysis.
- Automated AWS CloudFormation deployment, cutting resource provisioning time by 20% for faster, more efficient system 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