Jay Rana

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TECHNICAL SKILLS

Languages : Java, Python, JavaScript, Go, HTML5, CSS, Scripting Languages (Bash), C/C++, SQL

Frameworks/Libraries: React JS, Angular, Spring Boot, Node.js, JUnit, Mongoose

Databases : MongoDB, MySQL, DynamoDB

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

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

Concepts : Linux Operating System, Agile methodologies, Software Development Life Cycle, CI/CD, 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 202

Sept 2023 - Dec 2023

- Crafted an innovative app for seamless podcast transcription, enhancing accessibility and content discovery.
- 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

- Mastered full-stack web solutions with seamless API and backend integrations, showcasing deep knowledge of internet protocols (HTTP, TCP/IP, web sockets) for enhanced data flow and system efficiency.
- 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.
- Drove a 70% improvement in web application performance through strategic caching, asynchronous programming, and code optimization, significantly elevating user experience.

EDUCATION

Dalhousie University, Halifax, NS

Master of Applied Computer Science

Jan 2023 - Present CGPA: 3.8/4.3

Jul 2018 – May 2022

Dharmsinh Desai University, Nadiad, Gujarat Bachelor of Technology in Computer Engineering

2018 – May 2022 CPI: 8.1/10.0