




Jay Rana

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TECHNICAL SKILLS

Languages : Java, Python, JavaScript, HTML5, CSS, C/C++, SQL
Frameworks/Libraries : React, Angular, Spring Boot, Node.js, Testing framework (Jest and Mocha), 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, BEM methodology, Agile methodologies, Software Development Life Cycle, CI/CD, Terraform, 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, ensuring robust data synchronization across the application. Enhanced front-end styling and maintainability using SCSS and the BEM methodology, leading to more organized and scalable CSS architecture.
 - Led efforts in adopting modern front-end practices, including the strategic use of SCSS for styling and the BEM methodology for CSS class naming, significantly improving the maintainability and scalability of style sheets.
 - 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