

Jay Rana

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TECHNICAL SKILLS

Languages : JavaScript, Java, Python, HTML5, CSS, C/C++, SQL
Frameworks/Libraries : NodeJS, React, Spring Boot, Express.js
Databases : MySQL, MongoDB, 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 : Agile Methodologies, Extreme Programming, Software Development Life Cycle (SDLC), CI/CD, Restful APIs, Object Oriented Programming (OOP), Test Driven Development (TDD), Design Patterns

GRADUATE PROJECTS

- TrimTrek** | *Java, Spring Boot, React, MySQL, JUnit 5, CI/CD, Git, SOLID* | [github](#) 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.
 - Employed Agile practices with a focus on Test Driven Development and CI/CD pipelines to ensure efficient project progression and high-quality outcomes.
 - Coordinated with team members using Git and JIRA to manage tasks and maintain project timelines effectively.
- TriviaTitans** | *AWS Lambda, AWS Cognito, DynamoDB, AWS Lex, ReactJS, Node.js* | [github](#) 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.
 - Emphasized collaborative development and utilized Agile methodologies to adapt to changing requirements rapidly.
- PodcastTranscription** | *ReactJS, Node.js, AWS Lambda, AWS EC2, Transcribe, CloudFormation* | [github](#) Sept 2023 - Dec 2023
- Developed 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 Developer** | *TechNet Consultancy* June 2022 - May 2023
- Engineered enterprise applications with Java and Spring, optimizing performance and quality in an Agile environment through continuous testing and responsive iterations.
 - 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.
 - Championed Agile practices and collaborative coding, leading targeted mentorship and code reviews to elevate team capabilities and application quality.
 - 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