Jay Rana

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TECHNICAL SKILLS

Languages	:	Java, Python, JavaScript, HTML5, CSS, C/C++
Frameworks/Libraries	:	React, Redux, Spring Boot, Django, Node.js, JUnit Testing framework
Databases	:	MongoDB, MySQL, DynamoDB, Redis
Tools & Technologies	:	AWS, Azure Cloud Solutions, Docker, CI/CD Pipeline, Kubernetes, Git/GitLab, Jenkins, Jira, Office 365, Maven, VS Code, IntelliJ IDE, MS Excel, Teams, Outlook and Word
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

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 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.
- 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*
- Optimized API integrations in full-stack applications, enhancing functionality and data flow. Utilized Python for backend improvements, showcasing adaptability in using diverse programming languages.
- Implemented centralized state management for efficient data synchronization, demonstrating my focus on robust application performance.
- Enhanced code quality and streamlined development processes by introducing and adhering to CI/CD pipeline practices, facilitating continuous integration and delivery for project efficiency.
- Boosted web app performance by 70% with caching and async programming, improving user experience across 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