# Jay Rana

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## **TECHNICAL SKILLS**

Languages : Java, Python, JavaScript, TypeScript, HTML5, CSS, C/C++, SQL

Frameworks/Libraries: React, Spring Boot, Hibernate, Node.js, JUnit Testing framework, Mockito

**Databases** : MongoDB, MySQL, DynamoDB, PostgreSQL

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

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

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

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 |

- 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

- Spearheaded the design and implementation of seamless API integrations with backend services, enhancing functionality and data flow in full-stack web applications for optimal performance, in alignment with Agile methodologies.
- · Implemented centralized application state management using Redux, achieving a 35% improvement in data synchronization efficiency and application state handling.
- Enhanced team excellence and project delivery through targeted mentorship, streamlined code reviews, and strategic architectural guidance, fostering an Agile and collaborative work environment.
- 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

Master of Applied Computer Science

Jan 2023 - Present CGPA: 3.8/4.3

Jul 2018 - May 2022

CPI: 8.1/10.0

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