# Jay Rana

🔰 +1 (902)-989-7570 | 💌 jy834177@dal.ca | 🛅 /in/jay-rana/ | 👩 /jayrana

## **TECHNICAL SKILLS**

Languages : Java, Python, JavaScript, Typescript, HTML5, CSS, C/C++, SQL Frameworks/Libraries: React, React Native, Spring Boot, Node.js, JUnit Testing framework

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

Tools & Technologies: AWS, Azure, Docker, Azure DevOps, Google Cloud Plateform, Kubernetes, Git/GitLab, Jenkins, Jira,

Postman, Selenium, Maven, VS Code, IntelliJ IDE, MS Excel, Teams, Outlook and Word

Concepts : Agile methodologies, Infrastructure as Code, 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 |

- 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

- Engineered seamless API integrations for enhanced data flow and functionality in web applications, showcasing expertise in technical collaboration and system optimization crucial for successful data migration projects.
- Boosted data handling efficiency by 35% with Redux for application state management, demonstrating a knack for improving operational processes and data quality—a vital asset for data migration initiatives.
- Led by example, providing mentorship and strategic guidance, fostering a culture of quality and innovation. My ability to drive team excellence and implement scalable solutions reflects a strong fit for roles requiring collaborative success and technical leadership.
- Dramatically improved web app performance by 70%, leveraging caching, code splitting, and async programming. This achievement underlines my dedication to creating efficient and user-friendly systems, aligning with the ethos of delivering top-notch customer experiences.

#### **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