




Jay Rana

+1 (902)-989-7570 | [jy834177@dal.ca](mailto: jy834177@dal.ca) | in/jay-rana/ | [github/jayrana](https://github.com/jayrana)

TECHNICAL SKILLS

Languages : C/C++, Python, JavaScript, Java, HTML5, CSS
Frameworks/Libraries : React, Spring Boot, Django, Node.js, JUnit Testing framework
Databases : MongoDB, MySQL, DynamoDB, Redis
Tools & Technologies : AWS, Docker, Kubernetes, CI/CD Pipelines, Git, JIRA, Jenkins, Visual Studio Code, IntelliJ, Azure
Concepts : Agile Methodologies, SDLC, OOP, TDD, RESTful Services, Linux OS, Cloud Solutions

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.
 - Practiced Agile development methodologies, leading daily stand-ups, and participating in sprints, which improved team productivity and project turnaround time.
 - 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
- Enhanced functionality and data flow in full-stack applications by optimizing API integrations. Focused on utilizing C/C++ for backend improvements, which is crucial for developing high-performance, cross-platform games at Electronic Arts.
 - Developed and deployed applications in a Linux environment using C/C++, which significantly enhanced system reliability and performance. Gained extensive hands-on experience with shell scripting and command-line tools, skills that are directly applicable to the technical demands of game development platforms.
 - 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