

# Ravi Mulani

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## EDUCATION

### Lambton College

Postgraduate in Computer Software and Database Development

GPA: 3.6/4

ON, Canada

Jan. 2022 – Aug. 2023

- Software Engineering, Database Systems, Multithreading, full-stack development.

### Gujarat Technological University

Bachelor of Engineering in Information Technology

GPA: 9.1/10

Ahmedabad, Gujarat

Aug. 2017 - May. 2021

- C/C++, JAVA, Database Management Systems, Data structure & Algorithm, Object Oriented Programming, Computer Networks.

## SKILLS

**Programming Languages:** Java, Python, JavaScript, C, C++, C#, MySQL

**Databases:** MySQL Workbench, MongoDB, PostgreSQL, phpMyAdmin

**Frameworks & Libraries:** Selenium, Cucumber (BDD), JSON, XML, Mainframe, Cypress, TestNG, Rest Assured, , Agile Scrum

**Cloud & Big Data:** MATLAB, Git, AWS, Docker, Anaconda, Visual Studio, Bit Bucket

**Web Technologies:** JavaScript, HTML5, CSS3, ReactJS, Node.JS, Spring boot, Django, MVC, Rest API

**Tools & Technologies:** Jenkins, JIRA, JTMF, Confluence, Office365, Slack, Automation Test

## WORK EXPERIENCE

### Quality Engineering Intern (TD Bank)

May 2023 – Aug 2023

- Contributed to developing a comprehensive quality assurance framework for financial apps, using Selenium, Rest Assured, and Cucumber, increasing test coverage by 40% and reducing testing time by 30%.
- Automated test cases, integrated into Jenkins for continuous integration, enhancing release cycle efficiency by 20% with Apache Maven.
- Conducted thorough end-to-end and API testing with Postman for critical banking systems, resulting in a 15% defect reduction.
- Thrived in an agile development environment, participating in sprint planning, daily stand-ups, and retrospectives.

### Automation Test Engineer (Way to Code Technologies)

Sep. 2020 – Dec 2021

- Results-driven Automation Developer excelling in building and implementing robust automated tests.
- Managed CI/CD with Jenkins, demonstrating proficiency in quality testing via SonarQube, enhancing overall project efficiency.
- Proficient in Behavior-Driven Development (BDD), test framework development, and creation of test scripts.
- Collaborated with cross-functional teams to streamline testing processes, significantly revamping overall product quality.

### Software Developer Intern (Way to Code Technologies)

Jan. 2020 – Aug. 2020

- Designed and developed a mobile-first, responsive web application using Java, JavaScript, React, and Firebase that allowed users to track their fitness goals and progress. Utilized load testing and monitoring tools to identify and resolve performance bottlenecks.
- Streamlined back-end systems by creating a RESTful API that reduced server response time by 60%, resulting in faster page load times for users also ensuring smooth data transfer and user interactions.
- Maintained complex server-side applications using Node.js, Express.js, and other backend technologies to ensure robust and scalable web applications. Created a secure authentication system using JWT tokens, reducing login errors by 50% and increasing user security.
- Improved database performance by optimizing queries and indexing, reducing query execution time by 50% and increasing overall website speed.
- Implemented features such as real-time data syncing, gamification, and social sharing to enhance user engagement and retention.

## PROJECTS

### SQL Cloud Application (AWS, Flask, Python, SQL)

- Architected a scalable cloud-based SQL application using AWS, Flask, resulting in improved data accessibility and reduced latency.
- Developed RESTful API endpoints with Flask and implemented CRUD operations, resulting in a more efficient workflow.
- Optimized database schema and SQL queries to ensure data integrity and high performance, achieving up to 50% faster execution.

### AWS To-do App (AWS, NodeJS, Jenkin, Google Firebase)

- Conceptualized, developed, and organized an AWS-hosted "To-Do" application using Node.js for server-side development.
- Implemented Jenkins CI/CD pipelines for automated building, testing, and deployment. Integrated GitHub web-hooks to trigger builds on code commits and pull requests.
- Dockerized application for efficient deployment, scaling, and environment consistency.

### Crypto Dashboard (Java, Multi-Threading, UDP)

- Designed and deployed a dashboard using MongoDB, Express JS, React JS, and Node JS to visualize real-time crypto data.
- Assembled concurrent file sync, sync status, and error handling functionalities. Conducted extensive testing to ensure program stability.
- Deployed project on AWS with S3, Lambda, CloudFront, Route 53, gaining practical cloud experience; code hosted on GitHub.

## ACHIEVEMENTS

- Earned the runner-up position in two hackathons - the **Gujarat Industrial** and the Student **Startup and Innovation Policy** hackathon.
- Recognized as the **student of the term** for consistently attending peer-help sessions and actively participating in class discussions, demonstrating exemplary commitment.