

# KRITAN TAMRAKAR

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## Professional Summary

- Experienced and proficient in developing, testing, and maintaining full-scale web applications through Java/Spring, JavaScript/React/Node/TypeScript, and Python.
- Involvement in frontend and backend application testing through cypher, react testing library, Selenium and JUnit.
- Experienced and Proficient with SQL and NoSQL in relational and non-relational database systems.
- Excellent communication and presentation skills.
- Solid Understanding in the realms of machine learning, DevOps, and CI/CD pipeline.

## Work Experience

### **Veda App**

**January 2022 - April 2022**

Software Engineer Intern

Bagmati, Nepal

- Collaborated with a team of developers to enhance the customer web application based on React.js, Node.js, Nest.js, and Spring by optimizing MySQL database queries and backend APIs, resulting in a 20% improvement in the overall performance of the system.
- Refactored the layout of different sections of front-end web application using React.js and tailwind, increasing 10%-15% of customer satisfaction.
- Conducted thorough manual and automated testing using testing tools such as Selenium of web application functionalities, identifying and documenting 10-15 critical defects.
- Utilized Jira for comprehensive issue tracking, creating, and managing tasks, and actively participating in agile workflows, ensuring effective collaboration with team members and timely resolution of development issues.

## Technical Skills

Languages: Java, JavaScript, Python, MySQL, HTML5/CSS3, TypeScript

Developer Tools: AWS, Docker, Jira, Git, Jenkins, Junit, Cypher

Technologies/Frameworks: Nest.js, Next.js, Node.js, Spring, RESTful APIs, React.js, Selenium, bash, GitHub.

## Education

### **Sheridan College**

**January 2023 - present**

Brampton, ON

Advanced Diploma in Software Development & Network Engineering

GPA: 3.61 / 4.0

## Volunteer Participation

### **Front-End For Everyone | React.js, Python, AWS, bash**

**June 2023**

AWS Summit

Toronto, Canada

- Participated in a team to develop robust administrative applications, allowing authorized users to manage others profile through the admin services.
- Implemented the authentication and authorizations through JWT and sessions with the help of REST API calls using dev-ops tools and processes provided by AWS such as AWS Cognito, API gateway, and Elastic Beanstalk.
- Developed a python script using boto3 to automate AWS resources, such as EC2 instances and S3 buckets, for dynamically scaling infrastructure.

## Projects

### **Inventory Management System | Spring, Hibernate, JPA, MySQL**

**September - October 2023**

- Constructed a spring-based micro-service architecture involving product inventory management and an order placement facility for clients.
- Incorporated various automated dev-ops strategies and utilized the Eureka server for high availability and elasticity of overall application.

### **Modern Authentication System | Nest.js, Node.js, Next.js, MySQL**

**September 2023**

- Created a functioning modern authentication service using Nest.js (Spring-like framework) ensuring access to eligible users and protecting the system from unwanted users.
- Implemented proper RESTful APIs following the MVC model and ORM-based technologies for database manipulation.

### **Automated Sports News Scraper | Python, Selenium, XPATH**

**August 2023**

- Developed a scraper, automating data scrapping from the web at a fixed time frame in a day.
- Stored the data in a separate CSV formatted file each day for 100% readability.