

Siddhartha Jha

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Professional Experience

Software Engineer Intern

Gore Mutual Insurance, Cambridge, Ontario.

May2022-Aug2022

- Automated testing of critical services of the company such as "Pay a Bill" and "Make a Claim" feature using Playwright framework. This reduced the daily manual testing of health status of services.
- Developed the backend of desk reservation module using Typescript which was used by the employees to book desk locations in advance whenever they visit the office.
- Enhanced the broker user management module using Typescript which was used by the brokers to manage their claims.
- Worked on preparing test cases for various user management modules and tested them using Jasmine and Karma framework to achieve 100% code coverage.

Software Engineer

Larsen & Toubro Infotech, Mumbai, India

July2018-Aug 2021

- Developed web services and modules using Java and SQL for an American MNC, created design documents and knowledge articles for the applications and its modules.
- Proactively approached the issues and delivered fixes for them as story points in Agile mode which was well recognized by the management and client.
- Performed re-architecture of the components of legacy applications to openjdk11 to obtain more readable, maintainable & concise code with the help of functional programming.
- Optimized multiple SQL queries which used to fetch production data resulting in a 40% increase in throughput.
- Worked with Business Analysts to understand business and regulatory requirements; analyze impact and code changes for given problems efficiently, reporting in minimum issues.
- Critically analyzed production issues to ensure client satisfaction and operational efficiency.

Education

Master of Applied Computer Science Concordia University, Montreal, Canada (GPA-3.3)

2021-2023

Bachelor of Technology - Computer Science & Engineering A.K.T.U, Lucknow, India (Percentage - 76.4%)

2014-2018

Personal Projects

• Parking Ticketing Assistant using Kubernetes

This project analyzes the parking violation existing data set of New York parking database provided from the year between 2014 to 2017(Dataset source: Kaggle). It allows the police officer to know if the parking violation is a repeat offense or not and the frequency of offense in real-time as soon as a new ticket is initiated. As a result, average response time was reduced by 30% by creating multiple pods in Kubernetes.

• Gitterific using Spring Framework

Developed a web application that can analyze the content on GitHub using REST API. The interface takes a string with one or multiple search keywords and returns the related results in a tabular form as user, repository, issues and commits. This is implemented in Java and Spring framework using the concepts of dependency injection and inversion of control.

• Face Mask Detector using AI

Developed a face mask detection model using Python, Convolutional Neural and trained to recognise no-mask, fabric, surgical, FFP2, and FFP2-valve masks. Age and gender bias were found, removed, and the model's performance was assessed using K-fold validation for further improvement.

• Plagiarism Detection Tool

This tool analyzes the plagiarism between two files in reasonable time (not more than 5 seconds). The main algorithm used in the program is edit distance which is basically a dynamic programming approach to find the distance between two set of texts.

Technical Skills

Languages & Architectures: Java, JavaScript, CSS, HTML, Python, Restful Web Services, MVC, Microservices.

Tools & Version Controls: Git, JIRA, Confluence, SharePoint, Maven.

Databases & Frameworks: MySQL, MongoDB, Spring, Angular, Playwright, Junit5.

Application Servers & Containerized Platform: Tomcat, Jetty, Kubernetes.