Sulakshan Sivakumaran

📞 416-662-6361 ✉ sulaksha@uoguelph.ca 🔗 SulakshanSiva ⬛ SulakshanSiva 🌐 Website

Technical Skills

Languages: Java, C, JavaScript, C#/C++, Python, SQL, SASS, HTML/CSS
Frameworks: Spring Boot, React, NodeJS, ExpressJS, jQuery, Bootstrap, JUnit
Tools: Git, PostgreSQL, SQLite, Docker, Postman, GCP, Firebase, SonarQube, Jenkins

Education

University of Guelph   September 2021 – May 2025
Honours Bachelor of Computing | Computer Science (Co-op) | Minor in Project Management   *Guelph, Ontario*

Experience

NCR - Software Engineer Intern   September 2023 – December 2023
Spring Boot, PostgreSQL, Docker, Google Cloud Platform, Jenkins, Postman, SonarQube, Jira, Scrum   *Waterloo, Ontario*

- Developed, tested, and maintained a **Spring Boot** report **microservice** in a team of **6+** developers
- Engineered a **Fetch API** that utilizes dynamic query construction to retrieve **JSON** data from a **PostgreSQL** database, retrieving data from **10,000+** users
- Built unit tests using **JUnit**/**Mockito** to test **multi-threaded** functionality achieving **90%+ SonarQube** coverage
- Created **integration tests** for a **Download API** that validated the process of encrypting user data so it could be decrypted and uploaded to **GCS buckets**, increasing test coverage by **30%**
- Deployed **Jenkins Pipelines** to automate **CI/CD** for microservices, ensuring seamless code integration, validating various component interactions, and improving code quality
- Used **Jira** to track development requirements in a **Scrum** environment ensuring a fast, flexible development process

First National Financial LP - Software Test Engineer Intern   May 2023 – August 2023
JavaScript, SQL, TestComplete, SmartBear, Azure DevOps, Scrum   *Toronto, Ontario*

- Developed and maintained **automated** test scripts for internal First National products
- Built **automated** scripts in **JavaScript**/**SQL** to test **B2B** transactions resulting in a **13%** increase in test success rate
- Implemented **regression tests** through nightly script automations to highlight/update broken test cases, leading to a **22%** increase in regression test success rates
- Built **integration tests** that tested the cohesion between First National products and various third-party resources, verifying that functionality was **flexible, adaptable and cohesive**

Personal Projects

Molecule Viewer | *JavaScript, JQuery, Python, C, SQLite, Swig, HTML/CSS*   **Github**

- Built a **REST API** that allows users to upload .sdf files to view and rotate Molecules
- Implemented **jQuery** to receive uploaded .sdf files to then parse and convert into Molecule objects
- Used **SQLite** to store Molecule data that the **server** could execute **read/write** commands to

StatPad | *React, NodeJS, ExpressJS, Supabase, Python, SASS, Postman*   **Github**

- Developed an **API** that retrieves and displays Premier League player/team match statistics
- Conducted a **data scraping** of **500+** player statistics using **Python** and **BeautifulSoup**, storing this data via **Supabase** and dynamically displaying it through a **React** web application
- Implemented a **NodeJS** and **ExpressJS** backend to commmunicate with a database via GET calls and rigorously tested with **Postman**

Task Management System | *React, NodeJS, Express, JavaScript, Firebase, Google Cloud Platform, SASS*   **Github**

- Created a **REST API** that improves and controls user productivity and workflow using TODO lists
- Implemented the **Model-View-Controller** design pattern to obtain a clear separation of components, increase maintainability and improve testability
- Utilized **Firebase Cloud Firestore** to save user credentials and account information

TicTacToe | *Java, Object-Oriented-Programming Principles, JUnit Testing, Docker*   **Github**

- Built TicTacToe using **Object-Oriented Programming Principles** such as **Inheritance, Abstraction, Encapsulation, and Polymorphism** to ensure code scalability and reusability
- Engineered **automated unit tests** using **JUnit** to ensure each component worked as expected