Sulakshan Sivakumaran

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Technical Skills

Languages: Java, C, C#/C++, JavaScript, Python, TypeScript, SQL, SASS/SCSS, HTML/CSS, Bash
Frameworks: Spring Boot, React, NodeJS, ExpressJS, jQuery, NextJS, Bootstrap, Tailwind, JUnit
Tools: Git, Firebase, PostgreSQL, SQLite, Docker, Postman, SonarQube, Jenkins, Gradle, MongoDB, Swagger, Maven

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
- Built 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
- Built **integration tests** for a **Download API** that validated the process of encrypting user data so it could be decrypted and uploaded to **GCS buckets**, resulting in a **100%** test success rate
- 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
- Applied **SWIG** to incorporate **C** functionality in **Python** that allows users to rotate a Molecule on a 3D-axis

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

- Created a Task Management System 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
- Used the **React Drag and Drop** library to create **user friendly** interactions that allowed users to swap and move **TODOs** between productivity lists

Board Game Simulator | *Java, Object-Oriented-Programming Principles, JUnit Testing, Docker* — **Github**

- Built a version of TicTacToe that allows the user to play the original version or the numerical version of the game
- Implemented **Object-Oriented Programming Principles** such as **Inheritance, Abstraction, Encapsulation, and Polymorphism** to ensure code scalability and reusability
- Utilized **Gradle** and **Checkstyle** to enable proper software practices such as method reusability

Extracurricular Activity

GryphHacks - Web Developer — March 2023 – June 2023
NextJS, PostgreSQL, Docker, Tailwind, Vercel — *University of Guelph*

- Developed a website to advertise the official **University of Guelph Hackathon** in a team of 5+ developers
- Actively mentored 25+ students whilst developing their Hackathon project and provided advice on their development approach