

# SAQIB ALI

📞 647-561-7949

✉️ s248ali@uwaterloo.ca

🌐 saqib-ali

👤 SaqibA1i

🌐 saqibali.ca

## TECHNICAL SKILLS

---

**Languages:** C++, JavaScript, Java, HTML, CSS / SASS, Python, TypeScript, SQL

**Technologies:** React, Springboot, Express, Node.js, MongoDB, EFK (Elastic Search, Kibana, Fluentd)

**Tools:** Elastic Stack, Docker, Git, Bash, Postman, Kubernetes, Kong (API gateway), Keycloak (Identity Provider), Jenkins

## WORK EXPERIENCE

---

**CGI Inc.** 🏢 Backend Developer 📍 Markham, Ontario

May 2021 – Aug 2021

- Pioneered the creation of a backend server using **Express.js** to scrape and process metrics from the **Keycloak Identity Provider**, integral to the operation of company-wide services.
- Engineered an internal service using **Python** scripts to automate the warehousing of **Elastic Stack** logs, resulting in the reduction of backup time by **80%**.
- Utilized **Java** with **Spring** interceptors to implement Role Based Access Control to a web application, ensuring authorized users have access to specific services.
- Orchestrated a full technical redesign of making updates to the API gateway by utilizing the **Deck** tool integrated into a **Jenkins** **CICD** pipeline, increasing team efficiency by reducing **50%** of the time spent making updates.

**Open Text** 🏢 Fullstack Developer 📍 Waterloo, Ontario

Sep 2020 – Dec 2020

- Rebuilt a website to showcase UXD team icons using **React** and **JavaScript**, drastically reducing site load times by **97%**.
- Led the development of an icon management system utilizing **React.js**, **Java/Spring** which allowed **CRUD** operations for the efficient management of image files.
- Implemented build automation using **Team City** for the further manipulation of icons as part of **CICD** enabling programmatic access through npm packages and adding version control.

**WeWork** 🏢 Software Engineering Intern 📍 Toronto, Ontario

Jan 2020 – Apr 2020

- Architected a **REST API** using **MongoDB** and **Express** to upload user media, with user interaction through **VueJS**.
- Spearheaded the development of scripts using **Node.js** to test the functionality of user creation and deletion.

## PROJECTS

---

🏆 **Schmart** 🏢 1<sup>st</sup> place winner @Hack the Valley V – 500+ participants 📄 React Native, TypeScript, Flask, Python, SQL Oct 2021

- Spearheaded the development of a full-stack mobile application to streamline user shopping experience, utilizing **React Native**, **Python**, **Flask**, **SQL**.
- Implemented a product scanning system by leveraging **React Native** and the **Expo barcode scanner**, enabling users to meet their diet goals by dynamically tracking the nutrient content of scanned products.
- Structured a **REST API** using **Python** and **Flask** to effectively update user information stored in an **SQL** database.

🏆 **Graph Traversal Algorithms Visualizer** 🏢 [graph-algorithm.netlify.app/](https://graph-algorithm.netlify.app/) 📄 React, TypeScript, Sass Oct 2021

- Engineered an interactive 2D graphical interface using **React** for visualizing different graph traversal algorithms.
- Implemented Breadth First Search and Depth First Search.

🏆 **Sorting Algorithms Visualizer** 🏢 [sort-app.netlify.app/](https://sort-app.netlify.app/) 📄 React, Typescript, Sass May 2021

- Developed a web interface to visualize the progress of famous sorting algorithms like: Merge Sort, Quick Sort, Insertion Sort etc., to help students better understand their underlying logic.
- Leveraged **TypeScript** to employ static typing and assist with debugging.

🏆 **Grades Tracker Web App** 🏢 [qalculater.netlify.app/](https://qalculater.netlify.app/) 📄 MongoDB, Express, React, Nodejs, PassportJS Apr 2021

- Engineered a full stack web app that allows users to effortlessly keep track of their grades, streamlining the process of entering grades and saving students over **65%** of their time when compared to doing so manually.
- Architected a **REST API** using **Express** and **Node.js** which served backend functionality to the **React** frontend.
- Implemented user authentication using **PassportJS**, allowing for secure access to user information stored in **MongoDB**.

## EDUCATION

---

**BAsc, Computer Engineering, University of Waterloo, Waterloo ON**

Sep 2019 – Apr 2024

- Relevant Courses: Algorithms & Data Structures, Systems Program & Concurrency