

# Saqib Ali

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## EDUCATION

### University of Waterloo

Sept 2019 – Apr 2024

Honours, Bachelor of Applied Science in Computer Engineering

Waterloo, Ontario, Canada

**Relevant Courses:** Computer Science Functional Programs, Algorithms & Data Structures, Databases, Operating Systems, Computer Networks, Systems Program & Concurrency

## SKILLS

**Languages:** Python, Java, JavaScript (TypeScript), C/C++, Elixir, Go Lang, HTML, CSS, SQL

**Frameworks:** React.js, Redux, Express, NextJS, NodeJS, MongoDB, Springboot, EFK (Elastic Search, Fluentd, Kibana)

**Tools / Other:** AWS, Docker, Git, Bash, PostgreSQL, MySQL, Kubernetes, Jenkins, Cypress, Agile

## WORK EXPERIENCE

### Halp Inc.

Sept 2023 – Dec 2023

Software Engineering Intern

Toronto, Ontario

- Leveraged **Elixir's meta-programming & SQL**, to process **1B+** events daily, delivering real-time insights into user behavior.
- Designed a back-end service in **Elixir** to expose endpoints to reveal customer data & process user edits.
- Secured **1st place** in companywide hackathon by pioneering a tool in **React & Elixir**, guiding users through the app.
- Implemented metrics to monitor cloud infrastructure health with **Grafana** and used **Prometheus** to establish alerting.

### Arctic Wolf

Jan 2023 – Apr 2023

Software Engineering Intern

Waterloo, Ontario

- Leveraged **AWS S3** and **CICD** pipelines to optimize core back-end deployment workflows; reduced rollback time by **80%**.
- Engineered an efficient data recovery service using **React, Go Lang & SQL**; decreased reversion time by **70%**.
- Translated **15+** designs & wireframes into high quality, responsive & reusable **React / Typescript** code.

### Primer Ai

Jan 2022 – Apr 2022

Software Engineering Intern

San Francisco, California

- Optimized the core authentication logic by leveraging **Python** & NPM packages, abstracting **3K+** lines of repetitive code and securing access to company wide applications.
- Unified and consolidated separate **Redux** stores, significantly reducing application infrastructure by **50%**.
- Spearheaded the development of an internal tool using **React, Python & SQL**; ensured authorized access to services.

### CGI Inc.

May 2021 – Aug 2021

Software Engineering Intern

Markham, Ontario

- Built the back-end infrastructure to implement authentication using **Java, Springboot** interceptors & **SQL**; ensured authorized access to services.
- Revamped a data backup service using **Python & AWS S3** to warehouse Elastic logs; reduced backup time by **80%**.
- Orchestrated a technical redesign of making updates to API gateways by utilizing **Jenkins CICD** pipelines; reduced **50%** of the time spent making updates.

### OpenText

Sept 2020 – Dec 2020

Software Engineering Intern

Waterloo, Ontario

- Built an internal tool to showcase icons using **React, Java & Springboot**; drastically reduced site load times by **97%**.
- Architected a **RESTful** API utilizing **Java & Springboot**; allowed for the efficient processing & management of files.

## PROJECTS

### Schmart 1st place winner @Hack the Valley V – 500+ participants

- Implemented a product scanning system by leveraging **React Native & Python (Flask)**, enabling users to meet their diet goals by dynamically tracking the nutrient content of scanned products.

### Grades Book App

- Pioneered a robust web app which streamlines the grade monitoring process, resulting in over **65%** in time savings.

### Graph Algorithms Visualizer

- Engineered an interactive 2D front end using **React** for visualizing path finding algorithms: Breadth & Depth First Search.