

# SAAD IQBAL

## SOFTWARE ENGINEER

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## EDUCATION

### Ryerson University

Bachelors of Science Computer Science 2022

Sept. 2015 - May 2022

### Stephen Leacock Collegiate Institute

Ontario Secondary School Diploma (OSSD) 2015

## EMPLOYMENT

### Loblaw Digital, *Site Reliability Engineer*, Toronto

May 2022 - Mar. 2023

- Identified and shut down over-provisioned resources on GCP to save costs.
- Implemented and deployed a front end solution using NodeJS, ReactJS, Docker, and Kubernetes for managing expiring certificates on GCP.
- Designed and Implemented a service in GoLang, Prometheus, VictoriaMetrics, and Grafana for observing metrics.
- Deployed an exporter for redis metrics for multiple instances to Grafana to expand on observability for redis based services.
- Maintained running services by dealing with expiring certificates and downtime.
- Actively enrolled in on-call rotations for multiple environment caveats ranging from production to lower.

### Loblaw Companies Limited, *Technology Innovation Intern*, Brampton

May 2021 - May 2022

- Developed and deployed multiple proofs of concepts to live stores using JavaScript, Node JS, MongoDB, React, Vue, and cloud technologies.
- Hosted multiple Lunch and Learns that were open to colleagues company-wide about Computer Vision and Quantum Computing.
- Assisted senior specialists with graphics, bug fixes, automation scripts, adding features to existing projects, and more.

### Ryerson University, *Help Desk Technician (Contract)*, Toronto (Remote)

Jan. 2021 - May 2021

- Assisted professors and students with any technical assistance they require for the scope TRSM covers.
- Used Zendesk to respond to tickets.
- Presented and created PowerPoints for most common problems for new employees to understand and solve.
- Attended weekly team meetings which discussed updates, Zendesk tickets to solve, and for scheduling needs.

### IBM, *Front End Developer Intern*, Toronto

May 2019 - Apr. 2020

- Developed using tools/languages/frameworks such as AngularJS, RxJS, NodeJS, ReactJS, Redux, Jenkins, Miso, DB2 and more.
- Developed a Slack bot in Node js that automated the deployment of Jenkins scripts. The slack bot has authentication support from the slack user.
- Implemented regression tests and unit tests.
- Implemented a filter list using ReactJS to dynamically find testing reports depending on the software development cycle stage.
- Completed courses offered by IBM such as Kubernetes, microservices, and Docker.
- Helped upgrade and refactor components from Angular 5 to Angular 8.

### Butterfly Beads, *Web Developer/Designer/Photographer*, Toronto

Sept. 2016 - Aug. 2017

- Created and edited web pages on the retail website using Shopify's templating language, Liquid.
- Improved Shopify's retail database queries for analyzing metrics and inventory using Python.
- Fixed and debugged layout issues on the website.
- Photographed and edited products using a studio booth and Photoshop CS6.
- Updated all current inventory and logged on the retail website.

### YM INC, *Cashier/Sales Associate*, Toronto

Aug. 2015 - Sept. 2016

- Responsible for updating merchandise with signage, stock, and displays that encouraged sales.
- Managed cash registers to handle customers buying merchandise, promoting ongoing sales, and keeping variances stable.
- In charge of fitting rooms made sure external theft and internal theft was not possible and kept track of time and items when the room was used.
- Held responsible for generating revenue and reaching budget for the daily and monthly expected value.
- Documented canceled and/or voided transactions.
- Deposited and closed tills with management, put backs, and cleaned the store at end of day

## SKILLS

**PROGRAMMING TOOLS AND LANGUAGES:** JavaScript, HTML/CSS, ReactJS, NodeJS, ExpressJS, React Native, MongoDB, PostgreSQL, Git, AngularJS, Docker, Golang, Kubernetes

**CERTIFICATIONS:** The Complete React Native and Redux Course on Udemy, Ontario CPR Certification, IBM Cloud Kubernetes Services, The Complete React and Redux Course on Udemy

## PROJECTS

### Osul! IRC Bot (Tournament Map Recommender)

May 2020 - Current

- Chord bot is an IRC bot built in Node JS that uses an IRC channel to reply to commands asked by players live.
- The IRC bot replies to custom filters that a user sets in the query and the bot responds with a tournament map that matches the criteria.
- The bot is hosted 24/7 on Heroku servers and is pinged every 5 minutes for the best uptime.
- Makes use of throttling requests to handle the server load to avoid API limitations.
- Used by pro osul! players plus countless others daily for their practice needs.

### Weather Express

- Displays the weather depending on the location/zip address/relative address.
- Purpose is to be built with robust async code.
- Made with Nodejs and ES6 JavaScript.

### Image Processor

- An application that is written in Java which receives any image and can apply photo filters using pixel processing.
- Filters include blur, sharpen, edge outline, and color sort.
- It can also apply changes to the image such as rotation, crop, and split.
- Project for Computer Science course.

### Fighters 2D Game Engine with Java - Features me as a character

- 2D "Street Fighter Styled" Fighting Game.
- Java with Run-Time Engine, SpriteSheet Algorithm + State Change.
- Features myself as a character due to taking a video of each move set, taking the frames and incorporating that on a sprite sheet.
- This was made when I was in grade 12 in highschool. It inspired me to major in Computer Science.
- Will be converting to applet to display on my personal website.
- Does not feature hitboxes due to time constraints but I am working on a multiplayer version of the game on the side.