SAQIB ALI

COMPUTER ENGINEERING | UNIVERSITY OF WATERLOO

✉ s248ali@uwaterloo.ca
🌐 saqibali.ca
📞 647-561-7949
</> github.com/saqiba1i
in linkedin.com/saqib-ali

TECHNICAL SKILLS

C++ **|** Java / Spring **|** JavaScript **|** Python **|** Html / CSS / SASS

React **|** Kong API Gateway **|** Docker **|** Apache Server **|** MERN **|** TypeScript **|** Git

WORK EXPERIENCE

Spring 2021

Developer *CGI Inc. Markham, Ontario* *May 2021 – August 2021*

- Spearheaded the research and integration of the Deck tool in a Jenkins CICD pipeline to streamline and secure changes made to the Kong Api Gateway.
- Established a system involving python scripts to automate the warehousing of EFK logs, reducing time by **80%**
- Leveraged knowledge in Java, Springboot to add user context to a web application by using interceptors and deploying the app via Docker. The app was accessed through a reverse proxy integrated with the Keycloack IDP.
- Created an ExpressJS application to scrape metrics from the Keycloack IDP and preform custom health checks.

Fall 2020

Software Developer *OpenText*, **Waterloo***, Ontario* *September 2020 – December 2020*

- Co-developed a responsive website to showcase proprietary company icons and optimize the UXD team's workflow from a sluggish and nonresponsive site to one that is instantaneous.
- Lead the development of an admin screen to upload, delete and edit icons utilizing React, Java and Spring
- Implemented build automation using Team City to run scripts for further manipulation of icons as part of CI/CD.

Winter 2020

Software Engineering Intern *WeWork labs, Toronto Ontario* *January 2021 – April 2021*

- Worked in a fast-paced startup environment to aid development of a social media application.
- Performed manual test executions to document bugs within the software database using NodeJS and JavaScript.
- Spearheaded the implementation of a Restful API demo to upload user media to MongoDB, using Express.

SOFTWARE PROJECTS

Sorting Visualizer Website *React, TypeScript* https://sort-app.netlify.app/

- Developed a clean web interface to visualize the progress of some famous sorting algorithms
- Incorporated Merge Sort, Quick Sort and Bubble Sort
- Added sliders for the purposes of manipulating array size and sorting speed.

Grades Organizer Web App *MERN stack, PassportJS* https://qalculater.netlify.app/

- This web application removes a student's reliance on sticky notes to keep track of their grades / academic progress, decreasing time required by **65%**
- UI Interactivity was implemented using the React framework and styling using SASS.
- User Authentication and registration was handled using PassportJS.
- Structured the backend using ExpressJS to handle HTTP requests and make updates the MongoDB data base.

PlayStation 5 UI for Windows *Python, Kodi*

- Developed a clean interactive front-end interface to launch games using Kodi.
- Implemented core functionality to launch, hide, sort, remove games via Python scripts.
- Incorporated the Xinput api to report information regarding controllers in UI: Play Station 5 Skin.

EDUCATION

Fall 2019 - Present

University of Waterloo Candidate for BAsc in Honours Computer Engineering, Co-op

OTHER

- uWaterloo Euclid School Champion: *1st place of math / computing competition awarded twice (2017 & 2018)*
- Governor General's Academic Award: *highest academic achiever in high school*