

SAQIB ALI

COMPUTER ENGINEERING | UNIVERSITY OF WATERLOO



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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 | <i>CGI Inc. Markham, Ontario</i> | <i>May 2021 – August 2021</i> |
| | <ul style="list-style-type: none">• 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 Keycloak IDP.• Created an ExpressJS application to scrape metrics from the Keycloak IDP and perform custom health checks. | | |
| Fall
2020 | Software Developer | <i>OpenText, Waterloo, Ontario</i> | <i>September 2020 – December 2020</i> |
| | <ul style="list-style-type: none">• 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 | <i>WeWork labs, Toronto Ontario</i> | <i>January 2021 – April 2021</i> |
| | <ul style="list-style-type: none">• 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 | <i>React, TypeScript</i> | https://sort-app.netlify.app/ |
| | <ul style="list-style-type: none">• 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 | <i>MERN stack, PassportJS</i> | https://qalculator.netlify.app/ |
| | <ul style="list-style-type: none">• 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 | <i>Python, Kodi</i> | |
| | <ul style="list-style-type: none">• 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*