

Kanza Shams

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EDUCATION

University of Guelph

Guelph, Ontario

Honours Bachelor of Computing in Software Engineering (Co-op)

Expected April 2021

Minor in Business Economics

Major GPA: 86.4/100

- **Relevant Coursework:** Software System Development and Integration, Software Design, Object Oriented Programming, Data Structures and Algorithms, Intermediate Programming in C, Operating Systems, Discrete Structures in Computing I
- Recipient of the **Sandbox Software Solutions Scholarship**

WORK EXPERIENCE

ecobee

Toronto, Ontario

Web Developer Intern

January 2020 – August 2020

- Collaborated with backend service teams, product stakeholders and mobile developers to advise on best practices for designing GraphQL schemas that met the needs of client
- Implemented schema changes in TypeScript, connecting to REST and gRPC services, adding 100% unit and integration test coverage, and performing end-to-end tests to implement features in a timely manner
- Continuously deployed features to production through CircleCI, performing smoke tests and monitoring the service to ensure the service was not greatly impacted due to changes
- Investigated and implemented improvements to CD pipeline to simplify the experience for developers deploying to production
- Created an Apollo plugin to log details regarding requests that are performed, including information on errors that occur, helping to increase observability and enhance debugging
- Managed infrastructure as code using Terraform; performed plan and apply procedures for updating user permissions, creating, and destroying subscriptions
- **Technologies used:** TypeScript, GraphQL, Apollo, Node.js, Jest, CircleCI

ecobee

Toronto, Ontario

Test Developer Intern

May 2019 – August 2019

- Developed features for the front-end by learning React to improve usability for customers and allow the team to achieve our quarterly objectives
- Automated end-to-end tests using Python to increase testing coverage and run regression tests every night on the UI and APIs, allowing early detection of any potential issues
- Introduced method of visual regression testing to accelerate testing for reporting feature and provide reliable and consistent way to diagnose issues when merging in new features using BackstopJS
- **Technologies used:** Python, JavaScript, React, Puppeteer, BackstopJS

PerkinElmer Inc.

Guelph, Ontario

Associate Software QA Engineer

May 2018 – December 2018

- Designed and implemented an application using SAS Programming to automate data generation and append up to 100,000 new records to existing data sets thereby improving coverage and efficiency of soak testing process
- Developed a fully functional automation framework using Selenium WebDriver for Java and Maven to automate acceptance tests written in Cucumber for an AngularJS web application
- Contributed to the development and maintenance of automated test scripts for regression, smoke and soak tests to accelerate these testing cycles
- **Technologies used:** Java, Selenium WebDriver, Maven, Cucumber, Eclipse, SAS Programming, Git, GitHub, JIRA

PROJECTS

Focus Finder at YorkU Hacks

September 2018

- Led a team of 4 individuals from varying backgrounds and experiences to define requirements for, design and implement an educational learning platform to receive first place prize in the Lasso 50/50 Challenge
- Demoed the project to 4 different judges to effectively communicate the team's goals and visions
- **Technologies used:** *HTML, CSS, JavaScript, Bootstrap*

Genealogy App

May 2018

- Designed a web application to organize and retrieve genealogy information obtained from parsing records from GEDCOM (Genealogical Data Communication) files
- Implemented library API in C, integrating Node.js to allow C code to run on the server
- Created an interactive web application using jQuery and Ajax to send and retrieve data from the backend server
- Integrated SQL server to allow the user to store and retrieve relevant information quickly
- **Technologies used:** *C, JavaScript, Node.js, Ajax, jQuery, SQL, HTML, CSS*