

SHAWN SUI

4A HONOURS MATHEMATICS

CONTACT ME

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SKILLS

LANGUAGES

Javascript • Typescript • Elixir • Go
• Python • C • SQL • HTML & CSS

TECHNOLOGIES AND TOOLS

React.js • Node.js • GraphQL
Redux • MongoDB • Postgres •
Docker • Git
Test Driven Development

EDUCATION

UNIVERSITY OF WATERLOO
FACULTY OF MATHEMATICS
Candidate for Honours Bachelor
of Mathematics Co-op in 2021

BRAINSTATION

Full-time web development

Jan - March 2018

Acquired experience using many
programming languages, including:
JavaScript, HTML, CSS, Node.js,
React, MongoDB, Postgres, and
SASS.

WORK EXPERIENCE

LEAGUE INC | FULLSTACK DEVELOPER

January - April 2020 | Toronto, ON

- Worked on the League's integration canonical system to help streamline onboarding and updating employee data onto the League App.
- Built and tested new generic solutions for integration mappings and logic in **Go** that fit diverse company requirements.
- Developed initial state design of a new integration architecture in **Python** using **Apache Airflow** to enable better diagnosis and logging and improving reliability.
- Solved data discrepancies by creating reports from data in **MongoDB** using **Studio3T IntelliShell**

MAJIK SYSTEMS | FRONT END DEVELOPER

May - August 2019 | Waterloo, ON

- Spearheaded the redesigned of a web application for factory equipment and connections management using **React.js**, **GraphQL** and **Material UI**.
- Refactored application architecture to utilize **Redux**, **Apollo GraphQL** and **React Hooks** to allow for predictable queries and reducing code size.
- Used a test driven approach to front end development using **Storybook**, **Jest**, **React Testing library** and **Enzyme**.
- Created and updated tooling for page transition animation, form stepper and other adhoc front end components using **Material UI**.

MAPLE LEAF FOODS | INFORMATION SOLUTIONS DEVELOPER

September - December 2018 | Mississauga, ON

- Built an internal help desk chatbot using **C#** and **.Net MVC** with **Microsoft Bot builder** and **Luis.ai** to streamline form submission and improve query handling.
- Used user research to develop an interface that allowed HR people to view consolidated information and modify the database allowing a quicker process.
- Wrote detailed **documentation** to improve maintainability and accelerate the on boarding processes for new engineers.

PROJECTS

TRIPPIN'

- Developed a trip planning app that optimizes travel time between multiple destinations using **Ant Design** and **React** and backend using **Node.JS** and **Express**
- Built an algorithm that utilizes data from the **Google Maps API** to calculate distances using precise locations.

CHECK YOURSELF | HACK THE NORTH 2018

- A **Chrome Extension** that analyzes users comments and posts to inform them of any potentially offensive or hurtful tones to reduce hate speech online.
- Uses the **Watson tone analysis API** to determine the probable emotions being conveyed in the text and overlays warning and suggestions.

INVOLVMENT

UW COFFEE 'N CODE | VP EDUCATION & WEB DEVELOPER

May 2018 - August 2019 | Waterloo

- Formed and lead a team of educators to deliver weekly workshops on various tech related projects such as machine learning, data science and web development.
- Built the backbones of the club website using **React** and **Material UI**.