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Skills

Languages JavaScript, Python, C, C++, Racket, SQL, HTML/CSS

Frameworks/Libraries React.js, Redux, Node.js, Express.js, Jest, Enzyme, Django

Tools/Technologies Git, PostgreSQL, MongoDB, Postman, Selenium, Puppeteer, JIRA, Netlify, Heroku

**Experience** 

### The Co-operators Group Ltd.

Kitchener, ON

FULL STACK SOFTWARE DEVELOPER

Jan 2021 - Apr 2021

- Redesigned an internal server migration and currency tracking web portal using React/Redux on the front-end, with Node.js, Express, and MongoDB on the back-end
- Improved application performance by refactoring to use server-side pagination, reducing load times by 80%
- Created a request manager to ensure asynchronous API calls returned responses in a predictable order
- Increased code reuse by developing an auto logout higher-order component
- Developed and maintained unit tests using Jest, Enzyme, and SuperTest
- Effectively worked within a small team following an Agile workflow

SAP Canada Inc. Waterloo, ON

**QUALITY ENGINEERING AUTOMATION DEVELOPER** 

May 2020 - Aug 2020

- · Conducted exploratory and automated testing on GUI tools for SAP HANA (Cockpit and HRTT)
- Developed and maintained automation test cases using Python, Selenium, and HANA SQL
- Reviewed automation test results for failures and logged related issues to JIRA and the Quality Management System (QMS)
- Worked with product developers to reproduce bug reports and verify bug fixes
- Developed a **Chrome extension** to add client side functionality to QMS, speeding up the automation verification process

# Projects\_\_\_\_\_

## **Graphic Novel Reader**

source code 🖸

Front-end comic reading client for the MangaDex API

Feb 2021 - Present

- Designed and developed a responsive, mobile first single page application using React/Redux and Material-UI
- Created custom hooks for data fetching to easily adapt to breaking changes in the external API
- Implemented full text searching of over 50,000 comic entries in PostgreSQL
- Optimized searches by storing a text searchable vector column and creating a GIN index, reducing average execution time from over 5 seconds to less than 100ms

Reddit Clone source code ♂

News aggregation and discussion website very similar to Reddit

Mar 2021 - Present

- Developed a functional clone of Reddit using React/Redux, Chakra UI, Node.js, Express, and PostgreSQL
- Deployed the front-end to **Netlify** and the back-end to **Heroku**
- Designed a PostgreSQL database schema for storing posts, comments/replies, and upvotes
- Built a RESTful API to interact with the database using Node.js/Express
- Created a recursive React tree component to support nested comments and conversation threading
- Performed API requests and data fetching with Redux and Redux Thunk
- Increased code reuse and cohesion by using a separate reducer to handle loading and error states
- Implemented JSON web token based authentication with support for multiple sessions using custom Express middleware

# Education

### **University of Waterloo**

Waterloo, ON Sept 2019 - Present

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

- Term Dean's Honours List Fall 2019, Winter 2020, Fall 2020 (3.93 cGPA)
- Recipient of the Waterloo County Entrance Scholarship (\$4000) & President's Scholarship (\$2000)