

Kevin Ding

UNIVERSITY OF WATERLOO - 2B COMPUTER SCIENCE

☎ (519) 729 0288 | ✉ k24ding@uwaterloo.ca | 🏠 tacticaltofu.github.io | 📱 tacticaltofu | 🌐 ding-kevin

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, 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

Education

University of Waterloo

Waterloo, ON

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

Sept 2019 - Present

- Term Dean's Honours List, Fall 2019, Winter 2020 (3.9 cGPA)
- Recipient of the Waterloo County Entrance Scholarship (\$4000) & President's Scholarship (\$2000)