Kevin Ding

University of Waterloo - 3A Computer Science

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Skills_

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

Frameworks/Libraries Flask, React.js, Redux, Node.js, Express.js, Jest

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

Experience

Snapcommerce (previously Snaptravel)

Toronto, ON

SOFTWARE ENGINEERING INTERN, BACKEND

Sept 2021 - Dec 2021

- Developed core features for a new digital wallet service using Python, Flask, PostgreSQL, and Protocol Buffers
- Built endpoints for third-party provider **webhooks** to support real-time push notifications
- Wrote **SQL** queries and created **dbt models** in **Snowflake** to segment users based on transaction history
- Improved application monitoring by logging key events to Amplitude, Datadog, and Slack

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 in a small Agile team, 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
- Developed and maintained unit tests using Jest, Enzyme, and SuperTest

SAP Canada Inc. Waterloo, ON

QUALITY ENGINEERING AUTOMATION DEVELOPER

May 2020 - Aug 2020

- Developed and maintained automation test cases for SAP HANA Cockpit and HRTT using Python and Selenium
- Reviewed automation test results for failures and logged related issues to JIRA and the Quality Management System (QMS)
- Developed a **Chrome extension** to add client side functionality to QMS, speeding up the automation verification process

Projects

MangaStack GitHub

✓

Web based comic reader for the MangaDex API with 40,000+ lifetime page views

Feb 2021 - Jul 2021

- 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 and optimized **full text searching** of over **50,000** comic entries in **PostgreSQL**, reducing average execution time from over **5 seconds** to less than **100ms**
- Achieved over 300 daily users in May and June 2021

Weddit GitHub ✓

News aggregation and discussion website very similar to Reddit with 80+ stars on GitHub

Mar 2021 - May 2021

- Developed a Reddit clone using React/Redux, Chakra UI, Node.js, Express, and PostgreSQL
- Created a recursive React tree component to support nested comments and conversation threading
- · Increased code reuse and cohesion by using a separate reducer to handle loading and error states
- Designed a PostgreSQL database schema for storing posts, comments/replies, and upvotes

Education

University of Waterloo Waterloo, ON

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, 90.1% CUMULATIVE AVERAGE

Sept 2019 - Present

• Recipient of the Waterloo County Entrance Scholarship (\$4000) & President's Scholarship (\$2000)