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, Redux, Node.js, Express, Jest
Tools/Technologies	PostgreSQL, MongoDB, Snowflake, Docker, Postman, Selenium, Netlify, Heroku, JIRA, Git

Experience

Snapcommerce (previously Snaptravel)   Toronto, ON
Software Engineer Intern   *Sept 2021 - Dec 2021*

- Developed core features for a new digital wallet service using **Python**, **Flask**, **PostgreSQL**, and **Protocol Buffers**
- Built back-end code supporting **over 20** real-time push notifications, integrating with third-party provider **webhooks**
- Created data syncs using **Hightouch**, **dbt**, and **Snowflake** to segment users based on activity history
- Integrated Finicity and TokenEx APIs into existing user flows to detect fraud and ensure application security
- Improved application monitoring by **30%**, logging key events to **Amplitude**, **Datadog**, and **Slack**

The Co-operators Group Ltd.   Kitchener, ON
Full Stack Software Developer Intern   *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 in JavaScript to ensure asynchronous API calls returned responses in a predictable order
- Developed unit tests using **Jest**, **Enzyme**, and **SuperTest** to increase code coverage by **40%**

SAP Canada Inc.   Waterloo, ON
Quality Engineering Automation Developer Intern   *May 2020 - Aug 2020*

- Built a **Chrome extension** to add client side functionality to the Quality Management System, **speeding up** the automation review process **by 15 minutes** every day
- Developed and maintained automation test cases for SAP HANA Cockpit and HRTT using **Python** and **Selenium**

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   *Sept 2019 - Present*

- Cumulative Average: **90%**, Major Average: **92%**, GPA: **3.9/4.0**
- Recipient of the Waterloo County Entrance Scholarship ($4000) & President's Scholarship ($2000)