

# Kevin Ding

UNIVERSITY OF WATERLOO - 3B COMPUTER SCIENCE

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## Skills

|                             |   |
|-----------------------------|---|
| <b>Languages</b>            | Python, JavaScript, TypeScript, HTML/CSS, SQL, C++, C                                 |
| <b>Frameworks/Libraries</b> | Flask, React, Redux, Node.js, Express, Apollo, GraphQL, Jest                          |
| <b>Tools/Technologies</b>   | PostgreSQL, MongoDB, Snowflake, Docker, Postman, Selenium, Netlify, Heroku, JIRA, Git |

## Experience

### Gem Software Inc.

San Francisco, CA

SOFTWARE ENGINEER INTERN

May 2022 - Aug 2022

- Built and launched full stack form features to **1,200+** client companies using **React, Apollo, GraphQL**, and **Python**
- Engineered 'Forms Response Routing', a feature that enables customers to automatically segment candidates based on form submissions, helping to secure a deal generating **over \$300,000** in ARR
- Designed a **PostgreSQL** database schema to preserve historically accurate candidate activity logs and routing statistics, allowing customers to gauge form success
- Developed a proof-of-concept **landing page builder** used by the go-to-market team in product demos

### 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 endpoints supporting **over 20** real-time push notifications, working 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** that shaved off **30 minutes** from the automation review process 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

- Achieved **over 300 daily users** in May and June 2021
- 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**
- 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

### Weddit

GitHub 

News aggregation and discussion website similar to Reddit with **150+ 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

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### University of Waterloo

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

Waterloo, ON

*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**)