

# Kevin Ding

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## Skills

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

## Education

### University of Waterloo

Waterloo, ON

BACHELOR OF COMPUTER SCIENCE

Sept 2019 - Apr 2024

- Average: **91%**, Major Average: **92%**, GPA: **3.92/4.0**
- Recipient of the Waterloo County Entrance Scholarship (**\$4000**) & President's Scholarship (**\$2000**)

## Experience

### Tesla

Palo Alto, CA

SOFTWARE ENGINEER INTERN

Sept 2023 - Dec 2023

- Architected a high-performance data visualization web application using **React**, **Next.js**, **Go**, and **MySQL**, enabling **150+** internal customers to easily query and analyze time series datasets containing up to **5,000,000** points each
- Designed an algorithm to efficiently fetch fragmented signal data from a rate limited API, reducing execution time by **15%**
- Developed dashboards to expose key test metrics, and built a cache layer with **MongoDB** to increase responsiveness by **7x**

### Newfront

San Francisco, CA

SOFTWARE ENGINEER INTERN

Jan 2023 - Apr 2023

- Created an invoice templating feature using **React**, **tRPC**, and **Nest.js**, enabling the migration of **1,500+** client accounts
- Designed a system to support the billing of end-insureds from a parent account, saving **450+** days of labor annually
- Developed a mechanism to prevent the overbilling of policies, speeding up the invoicing workflow by **25%**
- Investigated and resolved **55%** of outstanding issues for a new feature used to automate the **1,100+** hour per month manual process of creating installment plans, enabling a successful company-wide launch

### Gem

San Francisco, CA

SOFTWARE ENGINEER INTERN

May 2022 - Aug 2022

- Engineered a feature that automatically segments job candidates based on form responses using **React**, **Apollo**, **GraphQL**, and **Python**, helping to secure a client generating **over \$300,000** in ARR
- Designed a data model to persist routing logs using **SQLAlchemy** and **PostgreSQL**, providing analytics for **1,100+** forms
- Built a system to auto-populate candidate profiles using form data, increasing profile completeness by **20%**
- Developed full stack features for a **microsite builder** used to make landing pages with **30,000+** views

### Super.com (previously Snaptravel)

Toronto, ON

SOFTWARE ENGINEER INTERN

Sept 2021 - Dec 2021

- Built endpoints to send push notifications to **500,000+** customers using **Python**, **Flask**, **PostgreSQL**, and **Protocol Buffers**
- Created user profile data syncs using **Hightouch**, **dbt**, and **Snowflake**, improving email notification performance by **70%**
- Implemented **Amplitude** tracking for payments, generating **millions** of data points on user transactions

### The Co-operators

Kitchener, ON

FULL STACK SOFTWARE DEVELOPER INTERN

Jan 2021 - Apr 2021

- Redesigned an internal web portal in a small Agile team using **React/Redux**, **Node.js**, **Express**, and **MongoDB**
- Improved application performance by refactoring to use server-side pagination, reducing load times by **80%**
- Developed unit tests using **Jest**, **Enzyme**, and **SuperTest** to increase code coverage by **40%**

## Projects

### MangaStack

GitHub 

Manga reader built with **React** which had **300+ daily users** and **40,000+ views** in May 2021

Feb 2021 - Jul 2021

### Weddit

GitHub 

Reddit clone with **190+ stars** on GitHub, built using **React/Redux**, **Express**, and **PostgreSQL**

Mar 2021 - May 2021