

Kevin Ding

UNIVERSITY OF WATERLOO - 2B COMPUTER SCIENCE

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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

DriveTest Openings

[source code](#)

Content aggregation web application built with the **MERN** stack

Aug 2020 - Present

- Developed the back end with **Node.js/Express**, interacting with a **MongoDB** database using **Mongoose**
- Designed the front end with **React**, implementing client side filtering and sorting features
- Created an alternative lightweight front end using the **Pug** template engine to improve accessibility
- Wrote a Python script to scrape data from drivetest.ca, and used **PyMongo** to insert the data into a **MongoDB Atlas** database

Panchiraino

[source code](#)

Web based punchline guessing game

Jul 2020 - Present

- Built the back end using **Python/Django**, working with **SQLite** in development, and **PostgreSQL** in production
- Used sessions framework to support anonymous users
- Implemented account creation/authentication, as well as joke create, update, delete functionality
- Styled the front end with **HTML/CSS/Bootstrap/jQuery**
- Used **nlTK** and **FuzzyWuzzy** to determine semantic similarity between the expected punchline and the player's guess
- Wrote a Python script to load Kaggle dataset into the database

VideoRipper

[source code](#)

Fetches and plays back the raw video from a streaming site

Jul 2020 - Present

- Wrote the back end with **Python/Django**
- Used **Selenium WebDriver** to scrape the raw video URL from the specified streaming site, and return it to be displayed in the Django view
- Deployed to **Heroku** using the Chrome and Chromedriver buildpacks

InstaClout

[source code](#)

Instagram bot for gaining real followers

Jul 2019 - Aug 2019

- Wrote a **Python/Selenium** script to automatically follow users based on mutual friends
- Increased account followers by 1500, with an engagement rate of 32%

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)