

# Karen Huang

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## SKILLS

**Languages:** Python, C++, JavaScript, TypeScript, Java, HTML/CSS, C, Scheme, JSON, Bash

**Technologies/Software:** Django, preSQL, MongoDB, Elasticsearch, Docker, NodeJS, React, jQuery, GCP, AWS, Bootstrap, Jupyter, Github, Git, Linux, XWindow X11, VSCode, Figma, DocuSignAPI, SendGridAPI, SpotifyAPI

## EXPERIENCE

### Full-Stack Engineer, Empire Life Insurance, Kingston

January 2023 - April 2023

- Created new fields for newly added investment products. Worked with **Django** forms, **HTML/CSS** and **jQuery**.
- Created a tool for the **Django admin dashboard** to facilitate enabling and disabling of feature flags.
- Wrote a cron job with **Django** management commands to automate email reminders with **SendGrid** for incomplete investment forms. Worked with **preSQL** to validate data.

### UI/UX Full-Stack Engineer, Eon Media Corp., Toronto

May 2022 - August 2022

- Kickstarted the development of a video management portal. Created it from scratch, displaying data from **AWS S3** using **MongoDB**, **Elasticsearch**, **React**, **TypeScript**, and **NodeJS**.
- Built a search engine with autocomplete and autocorrect, and filtering and sorting tools with **Elasticsearch**, **React**, **TypeScript**, and **NodeJS**.
- Created new tools for AI developers to assist in their training for brand recognition models with **Javascript**, **HTML/CSS**.

## PROJECTS

### Spotify MBTI

- Created a full-stack web application that worked with **Spotify's API** to calculate a user's "listening personality".
- Made API calls to access any user's Spotify history and create a personalized playlist unique to the user.
- Built the front-end in **ReactJS** and back-end with **NodeJS**.
- Designed the website UI mockup on **Figma** with user experience in mind while preserving Spotify's brand aesthetic.

### Biquadris (source provided upon request)

- Collaborated as a team of three to build a two-player version of Tetris written in **C++**.
- Incorporated various **design patterns and architectures**—such as MVC, decorator pattern, factory pattern—to ensure efficiency and reusability of code.
- Built a graphics version of the game with **XWindow X11**. (Game can also be played without graphics.)

### Finn

- Worked on a financial analysis Discord bot that can access relevant historical data of any stock with **pandas** and **yfinance** to create a variety of portfolios.
- Programmed Discord slash commands for user input and finance functions in **Python**.

## EDUCATION

**Candidate for Bachelor of Computer Science**, Honours, Co-op Program, University of Waterloo, Waterloo, Ontario

Sept 2021 - Present

- Relevant Courses: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Financial Data Analytics, Object-Oriented Software Development, Logic and Computation, Data Structures and Data Management, Foundations of Sequential Programs, Computer Organization and Design

## MISCELLANEOUS

**HACKATHONS:** Hack the North, Hacky Winterland **EVENTS:** Collision Conference, BrainStation Demos, Premier Institute Women in Science Seminar, Creative Destruction Lab Attendee **SCHOLARSHIPS:** President's Scholarship of Distinction Entrance Scholarship (University of Waterloo)