Karen Huang

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EDUCATION

University of Waterloo, *Computer Science*   Apr 2026 | Waterloo, Canada

Relevant Courses: Algorithm Design and Data Abstraction **(C/C++)**, Operating Systems **(C)**, Object-Oriented Software Development **(C++)**, Data Structures **(C++)**, Sequential Programs **(C++)**

PROFESSIONAL EXPERIENCE

Persona, *Contractor - Data Engineer*   Mar 2024 – Present

- Designed and developed classification rules in **Python** to accurately categorize **1000+** documents into **70+** categories.
- Conducted extensive research on **100+** documents in various languages to enhance document classification rules.

Cookin, *Backend Engineer*   May 2024 – Aug 2024

- Worked with product and engineering team to design, develop, and release new features for the Cookin business manager app using **Kotlin**, **Postgres**, **Temporal**, etc.
- Enhanced existing APIs with new implementation to manage delivery cost subsidies. Ensured promotions and discounts were maintained.
- Developed and launched a high-priority feature for deleting menu items, collaborating with operations and product teams to define and prioritize requirements. Ensured database was maintained and updated accordingly.
- Worked on features with backend team—including mass sms sending, batch updating cook user shifts, enhancing search and filtering tools on our marketplace app—using technologies like **Typesense**, **Temporal**, **Twilio**.

Genesys, *Full-Stack Developer*   Sep 2023 – Dec 2023

- Engineered a batch retrieval API endpoint with **Python**—with **Swagger** and **Flask** implementation—optimizing data access by enabling simultaneous querying of multiple category IDs in specified databases. Used in **three** unique Genesys products.
- Presented data through responsive UI fetched from HTTP requests using **Knockout JS**.

Empire Life Insurance, *Full-Stack Developer*   Jan 2023 – Apr 2023

- Created new **Django** form fields for newly added investment products. Also worked with **HTML/CSS** and **jQuery** while being mindful of best design practices to improve customer experience.
- Fully automated the system for email reminders on incomplete investment forms using **Django** management commands and the **SendGrid API**. Worked with **preSQL** to validate data.

Eon Media Corp., *Full-Stack Developer*   May 2022 – Aug 2022

- Designed and developed a video management portal, displaying data from **AWS S3** using **MongoDB**, **React**.
- Built a search engine with autocomplete, autocorrect, filtering and sorting tools with **Elasticsearch**, **React**, and **NodeJS**.

PROJECTS

Spotify MBTI ⧉

- Created a web application using **ReactJS** and **NodeJS** 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.

Biquadris, (*source provided upon request*)

- Collaborated in a team of three to build a two-player version of Tetris written in **C++** with graphics in **XWindow X11**.
- Incorporated various **design patterns** and **architectures**—such as MVC, decorator pattern, factory pattern—ensuring code efficiency and reusability.

SKILLS

Languages & Frameworks

Kotlin, Python, C/C++, Java, SQL, JavaScript/TypeScript, Bash, Django, React

Tools & Services

AWS (S3, DynamoDB, Lambda, EC2, SQS), GCP, Temporal, Swagger, Flask, Postman, preSQL, MongoDB, Elasticsearch, Typesense, Docker, Bootstrap, Figma

MISCELLANEOUS

CLUBS: UWaterloo a cappella with The Water Boys ⧉ and The Unaccompanied Minors ⧉ , UWaterloo hiphop ⧉