

Karen Huang

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🌐 Personal Website

🌐 LinkedIn

🐙 Github

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 and Data Management (C++), Foundations of Sequential Programs (C++)

SKILLS

Languages & Frameworks

Kotlin, Python, C/C++, Java, SQL, JavaScript/TypeScript, Bash, Django, NodeJS, Knockout JS, React, jQuery

Tools & Services

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

PROFESSIONAL EXPERIENCE

Cookin, Backend Engineer

May 2024 – present

- 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. Collaborated with lead designer and mobile/web team on best UI/UX for setting subsidies and viewing costs.
- Designed and implemented a highly requested deleting menu items feature and gathered requirements from operations team and worked with product team to prioritize specific asks. 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** etc.

Persona, Data Engineer

Mar 2024 – present

- Designed and developed classification rules in **Python** to accurately categorize **thousands** of documents into more than **70** different categories.
- Conducted extensive research of **hundreds** of documents in various languages to enhance document classification rules.

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.

MISCELLANEOUS

CLUBS: UWaterloo a cappella with The Water Boys [🔗](#) and The Unaccompanied Minors [🔗](#), UWaterloo hip-hop [🔗](#)