Karen Huang

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EDUCATION

University of Waterloo, *Bachelor of Computer Science, Co-op*   Sep 2021 – Apr 2026 | Waterloo, Canada
Relevant Courses: Operating Systems, Object-Oriented Programming, Data Structures and Algorithms, Compilers

PROFESSIONAL EXPERIENCE

Persona, *Contractor - Data Engineer*   Mar 2024 – Present
- Designed and developed classification strategies in **Python** to accurately categorize **1000+ documents** into **70+ categories** to facilitate business operations of **10+ client companies**.
- Conducted extensive research on **100+ documents** in various languages to enhance document classification strategies.
- Engineered LLM prompts on data extraction processes for **300+ documents**, streamlining automated data extraction.

Cookin, *Backend Engineer*   May 2024 – Aug 2024
- Led the design and development for the Cookin business manager app, collaborating with cross-functional teams to address the needs of **75+ consumers** with **Kotlin**, **Postgres**, and **Temporal**.
- Enhanced APIs to manage delivery cost subsidies while maintaining promotions and discounts for **200+ users**.
- Developed and launched a high-priority feature for deleting menu items for business users, collaborating with operations and product teams to define and prioritize requirements.
- Led development on features such as including mass sms sending, batch updating cook user shifts through technologies like **Typesense**, **Temporal**, **Twilio**; leading to enhanced search and filtering tools on the marketplace app.

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 **3 unique Genesys products**.
- Built various responsive tooltips using **Knockout JS**, presenting **300+ annotations** fetched from HTTP requests, improving usability and readability on various internal tools.

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 email reminders system on **80+ 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
- Developed a video management portal, displaying metadata for **50+ videos** 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 ↗