

Cathy Liu

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SKILLS

Languages: Python, JavaScript, TypeScript, Java, C, C++, PHP. **Frameworks:** Django, Ruby on Rails, React, Next.js.

Databases: PostgreSQL, MySQL, NumPy, Pandas, scikit-learn. **Web Technologies:** Docker, AWS (EC2, S3, Lambda, RDS).

EDUCATION/CERTIFICATION

Bachelor of Computer Science | *University of British Columbia, BCS*

Sept 2020 – May 2023

Bachelor of Commerce with Distinction | *University of Toronto Mississauga*

Sept 2014 – Jul 2018

CFA Level II Candidate

PROFESSIONAL EXPERIENCE

Web Developer (Contract Part-Time), *Clearway Law*. Vancouver, BC.

Oct 2023 – Present

- Designing and implementing a complex and highly scalable digital platform that help users seeking legal help from a network of lawyers and legal experts
- Implementing frontend utilizing React **Next.js** framework, developing and refining **Ruby on Rails** backend API
- Led end-to-end testing initiatives using **Cypress** for frontend and **RSpec** for backend, ensuring robust component and system-level quality assurance

Quantitative Developer (Intern), *CSC Financial Co., Ltd.* Remote, Shanghai.

Apr 2023 – Aug 2023

- Constructed stock portfolios and developed rotational models to evaluate trading strategy performance using **Python** and third-party API.
- Developed tradable stock pools using fundamental data, experimented with rotation criteria, and conducted **backtesting** for strategy validation while utilizing platform's API to retrieve financial and options data.

Full Stack Developer (Co-op), *DNA Romance*. Vancouver, BC.

Sept 2022 – Dec 2022

- Developed and maintained a complex online dating web application using **Python**, **Django**, **JavaScript** and **HTML**, which generates matches and couples' compatibility report.
- Developed **RESTful** web services and **APIs**, designed a highly scalable **database schema** and **data model**, and wrote custom Python code to extend applications, supporting 30% increase in customer base.
- Enhanced payments and promotion system through updating Stripe APIs and integrating with **Django REST Framework**, resulting in a revenue increase of 23%.
- Wrote technical documentation and participated in code reviews using **version control** tools (**Bit Bucket**, **Git**).

Software Engineer (Co-op Team Lead), *Promag Enviro*. Langley, BC.

Jan 2022 – Apr 2022

- Developed and deployed a robust **Django web application** with **RESTful APIs**, enabling seamless management of users, devices, sensor data, **PostgreSQL** database integration.
- Leveraged **embedded engineering** principles to facilitate **AWS MQTT** broker communication, ensuring efficient data exchange and integration of sensor data within the system.
- Implemented a customized client and role-based permission framework using Django REST framework and integrated third-party LoginRadius API for secure **user authentication**.
- Collaborated on the design and implementation of **React** front-end, ensuring seamless integration with backend.

TECHNICAL PROJECTS

UBC Insight Façade Course Explorer

Jan 2023 – Apr 2023

- Led the development of a comprehensive full-stack web project using **HTML**, **CSS**, **JavaScript (React)** for the frontend, and **TypeScript** for the backend. The platform enables students to filter courses based on various criteria.

E-commerce Website

Jan 2024 – Present

- Led the development of a e-commerce project, leveraging Chakra UI and Next.js for the frontend to ensure a modern and responsive user interface, coupled with MongoDB for the database.