

FELIX LI

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Education

University of Waterloo

Bachelors of Computer Engineering, Co-op

Waterloo, ON

Graduation Date: 2027

- **GPA:** 3.7/4.0
- **Relevant Coursework:** Data Structures and Algorithms

Experience

Research Assistant

Summer 2024

University of Waterloo

Waterloo, Canada

- Conducted research to optimize log analysis of large scale log data from various software systems by establishing a pipeline to generate ground truths for **template based log parsing**.
- Saved **10+ hours weekly** by developing Python scripts to analyze over **2 million** log entries and templates from **12** different software systems, streamlining data collection for the study.
- Created and managed a user study for **20 participants** to identify and analyze discrepancies between automatically generated log templates and user perceptions, leading to improved log parsing techniques.

Full Stack Developer

Fall 2023

RIFO Holdings Group

Toronto, Canada

- Enhanced realtor efficiency by collecting, processing and visualizing **real-time** housing market data from over **2.5 million** listings across diverse Canadian regions by leveraging **React**, **ASP.NET Core**, and a **MySQL** database.
- Facilitated seamless communication between front-end and back-end systems, enabling efficient data retrieval and enhancing user experience by designing and implementing **RESTful APIs**.
- Optimized data retrieval, manipulation, and analysis, resulting in a notable reduction in processing times by **95%** through utilizing parallel processing and asynchronous programming techniques within data processing APIs.
- Engineered a **WinForms** desktop application using **C#** and **.NET Core** to display various company media on multiple screens.

Switch Technician

Winter 2023

Rogers Communications Inc.

Toronto, Canada

- Improved the reliability of fiber optic transport links through collaborative testing and troubleshooting using **RFC 2544** and **BERT** tests.
- Contributed holistically to all Rogers customers, working with **GSM (2G)**, **UMTS (3G)**, **LTE (4G)**, and **5G technologies**.

Projects

SlimPossible - 🐙

Next.js, ASP.NET Core, PostgreSQL, Tailwind CSS, Kinde Auth

- Developed a comprehensive web application empowering gym-goers to track their workouts and personal metrics, monitor progress, and create customized workout templates effortlessly.
- Built **RESTful APIs** using **ASP.NET Core** to orchestrate seamless posting of new workouts, dynamic creation and updates of workout templates, and retrieval of past workout history to and from a **PostgreSQL** database.
- Created a responsive and intuitive user interface to optimize user experience with **Next.js** and **Tailwind CSS**.
- Implemented user registration, login, and profile management using **Kinde's** authentication features.

Personal Website - 🔗

Next.js, Tailwind CSS

- Created a visually appealing personal website with a responsive design using **Next.js** and **Tailwind CSS**.
- Designed an intuitive UI for easy navigation to enhance user experience.
- Integrated **CI/CD** pipelines from Github to Vercel to automate the development workflow, ensuring efficient updates and deployment of new features.

Technical Skills

Languages: Python, C#, Javascript, Typescript, C++, Java, SQL

Technologies/Frameworks: React, Next.js, Tailwind CSS, ASP.NET Core, .NET Core, Entity Framework Core, WinForms, Elasticsearch, Logstash, Kibana

Developer Tools: PostgreSQL, MySQL, Postman, Kinde Auth, Vercel, Jira, Confluence, Bitbucket, Git, Sourcetree, Pandas