Emily Shuyan Lin

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Skills

Languages: C/C++, TypeScript, HTML/CSS, JavaScript, Svelte, Elixir, SQL, C#, Java, Python, Kotlin
Tools & Technologies: React.js, GDB, React Native, Node.js, Figma, Git, Phoenix, MongoDB, Bootstrap, Unity, Firebase, Expo, PSQL, MySQL, Express, Heroku, Docker

Experience

Developer | TD Innovation Labs   Waterloo, ON | Sept - Dec 2021

- Developed a full stack web application with upload and login functionality. Front end was built using **Svelte**, RESTful backend was built using **Elixir/Phoenix + PostgreSQL** for a high availability service
- Implemented a chrome extension to facilitate proactive budgeting with **React + Node.js + MongoDB**, using the **Cheerio** library to extract shopping cart data from a webpage (patent pending)
- Created a mobile app with **React Native** + **Expo** to provide content creators with a visual of their performance metrics and access to a new credit system

Technical Systems Analyst | RBC   Toronto, ON | Jan - Apr 2021

- Implemented the A* pathfinding algorithm to build a Battlesnake in **TypeScript**
- Scripted load testing regression tests using **Python** and **Shell**, saving developers **~2 hours/week**

Full Stack Developer| BeBlended   Waterloo, ON | May - Aug 2020

- Exposed admin functionality by building a Shopify app to manage client data using the **MERN** stack
- Improved security by implementing an authentication service using the **OAuth 2.0** protocol
- Spearheaded development of an online booking system, increasing **productivity by ~30%**

Projects

Backend Developer @ Develop for Good   Nov 2021 - Present
// Ionic, Node.js, Typescript, Firebase

- Optimizing the Water and Sanitation for Health Facility Tool for the World Health Organization

UX/UI Designer, Developer @ EngHack   Jan - Jun 2021
// TypeScript, JavaScript, PSQL, React, Bootstrap

- Designed a new UI in **Figma** and conducted user studies to provide information for **10000+ students**
- Queried **PostgreSQL** database to update **300+** entries of applicant info
- Led the development of a Discord bot to register and create a judging queue for students

Empathetic Playlists   Feb 2021
// React Native, Expo, MySQL, Node.js, Express

- Developed a mobile app that suggests a playlist based on a users' emotions using the **Spotify API**
- Utilized a ML model to detect user emotions using EEG signals

Education

University of Waterloo   2019 - 2024
Candidate for Bachelors of Software Engineering

- Co-President of UW Acabellas, SE EngSoc Class Rep, Website and Social Media Director for EngSoc