

# Emily Shuyan Lin

✉ emilyylin@outlook.com

🐙 github.com/emilyylin17

🌐 linkedin.com/in/emilyshuyanlin

🔗 emilyshuyanlin.com

## Skills

---

**Languages:** C/C++, HTML/CSS, TypeScript, JavaScript, Svelte, Elixir, SQL, Java, Python, PHP

**Tools & Technologies:** React.js, GDB, React Native, Node.js, Figma, Git, Phoenix, MongoDB, Bootstrap, Firebase, Expo, PSQL, MySQL, Express, Heroku, Docker

## Experience

---

### Backend Developer | Develop for Good

Berkeley, CA | Nov 2021 - Present

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

### Developer | TD Innovation Labs

Waterloo, ON | Sept - Dec 2021

- Developed a full stack web application with upload and login functionality. Front end was built in **Svelte**. 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 ([link](#))
- Created a mobile app with **React Native + Expo** that provides content creators with a visual of their performance metrics and access to a new credit system ([link](#))

### 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

---

### 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

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

My interests include badminton, acapella, violin, anime, any TV show on Netflix, the MCU, and hula hooping :)