# **Lily Tao**

# 2A SYSTEMS DESIGN ENGINEERING

# CONTACT



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# **SKILLS**

# Languages

- C++
- Java
- JavaScript
- HTML/CSS
- MATLAB

# **Technologies**

- Firebase
- MongoDB/Mongoose
- ReactJS/Redux
- React Native
- NodeJS
- Express
- Git
- Talend Data Integration
- Vercel

# **EDUCATION**

#### **University of Waterloo**

Systems Design Engineering (2019-2024)

- Data Structs. & Algorithms (C++)
- Digital Computation (C++)
- Digital Systems (microprocessors, circuits)
- · Engineering Prototyping

# **AWARDS**

#### DECA

Competitive Case Competition

- 3/170 Place Internationals (2019)
- 1/150 Place Provincials (2019)

#### Top 25% Euclid

International University of Waterloo Math Competition (2019)

## **INTERESTS**

Art (Oil, Acrylic, Portraits, Calligraphy)
Film Photography

#### **EXPERIENCE**

# **Full Stack Web Developer**

Year Zero Studios (Sept. 2020 - Dec. 2020)

• Worked in two teams of interns as a lead developer and product manager to build novel web applications in an agile environment

#### Mental Health Score

- Utilized **ReactJS**, **Firebase**, **Express**, and **Vercel** as a lead developer to design, develop, and deploy an optimized and user friendly mental health scoring assessment from scratch
- Led strategic product development and UIUX design by facilitating weekly design sprints, amassing 1000+ unique users since Nov. 2020 public release

# Wellify 👄

- Grew Wellify's existing JavaScript codebase by 30% through code refactoring and new feature integration such as the class editing user flow
- Connected ReactJS frontend to Firebase backend using Firebase API, allowing Wellify instructors to create new classes, edit existing classes, and access student information

# Developer

TD Bank (Jan. 2020 - Apr. 2020)

- Modernized legacy code in **Java** for financial reporting applications to deploy to higher testing environments
- Automated file transfer processes from external databases by creating scripts, reducing processing times by 70%
- Wrote Talend ETL jobs to load and extract financial application data to and from Hadoop datastore
- Complied with the system development life cycle (**SDLC**) and product development life cycle (**PDLC**) to create project documentation leading to improved project awareness and utilization across the team

## **PROJECTS**

# My Film Journal 👄

ReactJS, MongoDB, Express, Node (2020-2021)

- Full stack application that allows film photographers to keep track of their photography settings sorted by film roll instead of using a physical journal
- Currently working on implementing **user authentication** and redesign

# Trash Sorter 👄

ReactJS, Azure Custom Vision, HTML (Hack the North 2021)

• **Trained** and deployed a **computer vision model** and implemented Microsoft's **Prediction API** to classify images of waste uploaded by users and determines if it is recycling, garbage, or compost

## Herolines 👄

ReactJS, Firebase, Node (uOttaHack 2021)

Application that allows healthcare workers to search for deals and benefits
based on location and category. Used the Google Map API and Google Place
API to pinpoint the nearest store according to the user's instant location.

# Personal Website

Bootstrap, Javascript, HTML, CSS (2019)

• **Designed and developed** personal website to showcase current projects, work experience, and artistic works