Lily Tao

SYSTEMS DESIGN ENGINEERING

CONTACT

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SKILLS

Languages

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

Development

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

Product

- Adobe CC
- Figma/Sketch
- User Testing, Personas
- Market Research
- Design Sprints

Management

- Agile Framework
- Jira, Notion
- Confluence

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)

EDUCATION

University of Waterloo

Systems Design Engineering 2024

 Relevant Courses: Data Structs. & Algorithms (C++), Digital Systems, Human Factors in Design

Codecademy

Web Development (2020)

• HTML, CSS, Javascript

INTERESTS

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

EXPERIENCE

Web Developer

Year Zero Studios (Sept 2020 - Dec 2020)

- Utilized **Figma**, **ReactJS**, **Firebase**, and **Vercel** as a lead developer to design, develop, and deploy an optimized and user friendly mental health scoring application from scratch
- Led strategic product development and UIUX design for a research backed mental health assessment, amassing over 800 unique users since Nov. 2020 public release
- Conducted qualitative user research and testing by interviewing potential users to create personas
- Designed and developed the instructor class details and class editing user flow for Wellify, a wellness instructor booking platform
- Grew Wellify's existing JavaScript codebase by 30% through code refactoring and new feature integration

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

Co-Founder

Ingenium Youth Toronto (2018 - Present)

- Founded a registered not-for-profit that hosts monthly STEM events
- Led a team of 6 high school students to plan monthly interactive lessons
- Managed finances and logistics by securing a total of **\$2000** in sponsors through pitches to local businesses and finding event venue

PROJECTS

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

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

Helping Hand 👄

Personal Design Project (2020)

 Designed and prototyped interface for a digital volunteering app that consolidates volunteering opportunities and volunteering task performance using Figma

Personal Website 👄

Bootstrap, Javascript, HTML, CSS (2019)

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