

# Raymond Tao

Eager sophomore SE student seeking a summer 2024 co-op

✉ [taor10@mcmaster.ca](mailto:taor10@mcmaster.ca)  
🌐 US & Canadian citizen

🌐 [/raymondtt](https://raymondtt.com)  
🐙 [/Raymondtaoo](https://Raymondtaoo.com)  
🔗 [raymondtt.me](https://raymondtt.me)

## 💻 Skills

**Programming Languages** Python, JavaScript, TypeScript, HTML, CSS, Java, C++, SQL, Rust

**Tools** React, Express, MongoDB, Mongoose.js, Tailwind CSS, Node.js, Kubernetes, Docker, Terraform, AWS S3, FastAPI, Next.js, PostgreSQL, Next.js

## 🎓 Education

### McMaster University

Bachelor of Engineering - Software Engineering

2022 – Present  
Hamilton, ON

- **Relevant Skills:** OOP, DSA, Computer Architecture, Software Design
- Awarded Engineering Award of Excellence worth \$3000
- Clubs: intramural basketball, water polo, jiu jitsu, chess

## 🔗 Projects

### 🔗 FrameOff

Collaborative

- Built a responsive image-based poll web app using **TypeScript**, **Vite**, and **React**
- Created **REST API** endpoints with **Express**, leveraging **MongoDB** data models and **Multer** middleware for image uploads to **AWS S3**
- Designed user-friendly interfaces with **Figma**, **React.js**, and **TailwindCSS**, and prototyped with **Storybook**
- Improved state management and performance using **zustand**

### 🔗 AutoML

Google Student Developer Club

- Created a full-stack user-friendly platform for easy generation of custom classification models
- Implemented a **MVP** using **React** and **Next.js** to streamline UI, and model deployment via **FastAPI**
- Enhanced algorithm accuracy and addressed overfitting using **PyTorch** for model training
- Implemented scalable deployment with **Docker**, **Kubernetes**, and **Terraform** on Google Cloud Platform

### 🔗 Personal Library

Personal

- Developed a full-stack app using **TypeScript**, **Next.js**, **Rust**, and **PostgreSQL**, enclosed in **Docker**
- Implemented user management system, book cataloging, loan tracking, and a review platform
- Engineered **CRUD operations** and **state management** using **React Hooks**, facilitating intuitive navigation and real-time user interactions.

## ☰ Experience

### IT Intern

Digital Fire

Sep. 2021 – Feb. 2022  
Oakville, ON

- Offer server/hardware support for businesses, encompassing new installations and existing infrastructures
- Applied automation scripts for efficient hardware maintenance and engaged in software testing to enhance application reliability and quality

## ★ Interests

### Piano

Royal Conservatory Repertoire Level 9

- Favorite Musical Pieces: Nocturne in E-flat Major, Waltz in C Minor, Prelude in E Minor, Clair de Lune

### Powerlifting

Member of McMaster Barbell

- Strength Records: Squat - 395 lb, Bench Press - 285 lb, Deadlift - 485 lb