Raymond Tao

Eager sophomore SE student seeking a summer 2024 co-op

■US & Canadian citizen

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Education

McMaster University - Bachelor of Software Engineering

Hamilton, ON / Sept 2022 - Present

- Awarded Engineering Award of Excellence worth \$3000
- Clubs: Intramural Basketball, Water Polo, Chess, Brazilian jiu-jitsu, McMaster Barbell

Experience

Software Engineer - Google Developer Student Design Team *❷*

Hamilton, ON / Sept 2023 - Present

- Created a full-stack platform that simplifies the entry into ML of generating custom classification models
- Enhanced algorithm accuracy and addressed overfitting using PyTorch for model training
- Constructed Jenkins pipeline for CI, improving the reliability of FastAPI endpoint deployments by 90% through automated API testing using Poetry and Pytest
- Authored Dockerfile for the frontend containerization, contributed to GitHub Actions workflows, and executed scalable deployments with Docker, Kubernetes and Terraform on Google Cloud Platform

IT Systems Intern - Digital Fire

Oakville, ON / Sept 2021 - Feb 2022

- Automated script development for device reformatting and software installation, enhancing efficiency by reducing processing time by **30%** and increasing throughput by 20 devices per hour
- Managed Hyper-V Windows Server environments, data wiping, remote access, and RAID formatting

Projects

FrameOff *𝒞*

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

Gotcha Canada 🖉

- Created a bubble tea website leveraging CDN for Instagram image loading and Google Maps API
- Implemented SSR and sitemap optimization, ensuring mobile-friendly navigation and improved SEO
- Post-deployment, site saw a 300% increase in page views within 24 hours and achieved a 70% improvement in load times (FCP: 0.61s, LCP: 1.15s, INP: 48ms, FID: 3ms, TTFB: 0.25s)

Personal Library @

- Developed a book library app with TypeScript, Next.js, and Rust, integrating user management, cataloging, loan tracking, and reviews; deployed using PostgreSQL and Docker
- Implemented CRUD operations and state management using React Hooks to enhance user interactions

Interests

Piano

Royal Conservatory Repertoire Level 9

Repertoire: Nocturne in E-flat Major, Waltz in C Minor, Prelude in E Minor, Clair de Lune

Powerlifting

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

Skills

Languages: Python, Java, JavaScript/TypeScript, C++, SQL, Rust, HTML/CSS Libraries: Node.js, Express, React/Next.js, Mongoose.js, TailwindCSS, FastAPI

Technologies: MongoDB, GCP, Kubernetes, Docker, Terraform, AWS S3, PostgreSQL, GitHub Actions, Jenkins