Raymond Tao

Eager sophomore SE student seeking a summer 2024 co-op

⊘ US & Canadian citizen
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Skills

Languages: Python, JavaScript/TypeScript, HTML/CSS, Java, C++, SQL, Rust
Tools: Node.js, Express, React/Next.js, MongoDB, Mongoose.js, TailwindCSS, GCP, Kubernetes, Docker, Terraform, AWS S3, FastAPI, PostgreSQL, GitHub Actions, Jenkins

Experience

Digital Fire – *IT Systems Intern*   Oakville, ON / Sept 2021 - Feb 2022
- Automated script development for device reformatting and software installation, enhancing efficiency
- Managed Windows Server and Hyper-V environments, specializing in data wiping, remote access, and RAID formatting on servers to maintain robust and secure IT infrastructure

Projects

FrameOff
- 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**, and **TailwindCSS**, and prototyped with **Storybook**
- Improved state management and performance using **zustand**

AutoML
- Created a full-stack user-friendly platform for easy generation of custom classification models
- Implemented an **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**

Gotcha Canada
- Developed a bubble tea web app using **Next.js**, **TypeScript**, and **TailwindCSS** featuring Instagram via **CDN** and **Google Maps API** integrations
- Implemented **SSR** and **sitemap** optimization, ensuring mobile-friendly navigation and improved **SEO**
- Achieved high-performance metrics post-deployment, including **200+** page views in **24 hours** and impressive site speed scores (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

Education

McMaster University – *Bachelor of Software Engineering*   2022 – Present
- Awarded Engineering Award of Excellence worth $3000
- Clubs: intramural basketball, water polo, jiu jitsu, chess

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