

Ian Yeh

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EDUCATION

McMaster University

Bachelor of Engineering, Software Engineering — GPA: 4.0/4.0

Hamilton, ON

Expected Graduation: Apr 2029

EXPERIENCE

Full-Stack Software Engineer

Oct 2025 - Present

Google Developer Groups McMaster

Hamilton, ON

- Developed cross-platform mobile application using **React Native (HTML/CSS)** and **Figma** for **UI/UX design** prototyping, collaborating with **9-member engineering team** to establish component architecture and design system serving **300+ potential club members**
- Architected responsive mobile interfaces with **RESTful API integration** to optimize frontend performance and achieve **sub-2s load times** across all application features
- Collaborated in **Agile sprint cycles** to build full-stack features connecting frontend components to backend services, participating in **code reviews** and establishing development workflows using **Git** and **GitHub**

Operations Software Engineer

Oct 2025 – Present

McMaster Solar Car Project

Hamilton, ON

- Architected full-stack administrative platform with **Python** backend and **HTML/CSS** frontend, streamlining purchase request workflow and reducing approval time by **40%**, enabling real-time tracking of **\$100K+ annual budget** across **150+ team members**
- Engineered automated data synchronization pipeline integrating **GCP Cloud Functions** and **Docker** containerization, eliminating **10+ hours/week** of manual data entry
- Implemented **CI/CD pipeline** using **GitHub Actions** for automated testing, linting, and deployment to **GCP**, reducing deployment time from **2 hours to less than 5 minutes** and enabling continuous delivery

Software Engineer Intern

Jul 2025 – Aug 2025

BridgeSystems.net

Hamilton, ON

- Deployed full-stack **company website** in **2 months** using **TypeScript, JavaScript, ReactJS (HTML/CSS)** to manipulate the **DOM**, enabling clients to submit inquiries **24/7** and increasing client engagement by **35%**
- Implemented **RESTful API** for contact form processing with server-side validation and **email automation**, successfully processing **50+ client inquiries** with **99%+ delivery rate**
- Met weekly with project manager to review progress, align on deliverables, and incorporate feedback, ensuring **on-time delivery** of all milestones and maintaining clear communication throughout the development lifecycle

PROJECTS

AI Document Summarization System | Python, ReactJS, TypeScript, NextJS, PyTorch

Oct 2025

- Engineered **machine learning pipeline** leveraging **BART transformer model (406M parameters)** with **PyTorch** and **Hugging Face Transformers** to automatically generate abstractive summaries of PDFs
- Built full-stack application with **Python FastAPI** backend for **RESTful API** endpoints and **NextJS** frontend with **ReactJS**, enabling real-time **PDF processing**, text extraction, and **asynchronous model inference** for optimal performance

Rubik's Cube Analytics Dashboard | Python, ReactJS, TypeScript, PostgreSQL, NextJS

Aug 2025

- Engineered full-stack analytics platform using **NextJS** and **ReactJS** framework with **server-side rendering (SSR)**, **RESTful API** endpoints, **PostgreSQL** database with **OAuth 2.0** authentication, and **responsive design** principles for **cross-platform compatibility**
- Architected interactive **data visualization dashboard** with **real-time analytics**, processing **25k+ data entries** through optimized **SQL queries** and implementing **caching strategies** to achieve **sub-500ms query response times**

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, HTML/CSS, C++, SQL (PostgreSQL)

Frameworks: ReactJS, NextJS, React Native, PyTorch, FastAPI, Express.js, Node.js, TailwindCSS

Developer Tools: Git, GitHub, Docker, Google Cloud Platform, GitHub Actions, Figma, CI/CD, Jira