

Eric Lam

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EDUCATION

Queen's University

September 2020 – May 2025

Bachelor of Computer Science (Honors), Specialization in Software Design with Professional Internship

- GPA of 4.15/4.3
- Relevant Coursework: Data Structures, Database Management, Algorithms, Coding AI for Business, Operating Systems, System-Level Programming, Software Quality Assurance, Software Architecture

EXPERIENCE

Full Stack Software Developer Intern

May 2023 - June 2024

Center for Advanced Computing

Kingston, ON

- Developed secure full-stack web and mobile applications for medical and research use, collaborating directly with **10+** clients to translate requirements into scalable solutions using **React, Next.js, Node.js, Django, React Native, Flutter, MongoDB, and PostgreSQL**
- Built and redesigned client-facing components using **Material UI** and **Tailwind CSS** for web applications and **Flutter** for mobile applications, improving user engagement and user flow efficiency by **25%**
- Optimized and refactored **MongoDB** queries used in **RESTful API** endpoints to retrieve medical and financial dashboard data, reducing API response times from **4s to less than 1s**.
- Automated testing pipelines using **Flutter** and **Jest**, reducing manual testing effects by **10+ hours per week**

Web Developer Intern

January 2022 - April 2022

OMNIVERSITY

Toronto, ON (remote)

- Designed dynamic pages and responsive UI components using **React** and **JavaScript**, enhancing user flow efficiency by **40%**
- Implemented **MySQL** database queries using **Node.js** and **Express** to display dynamic content, enabling real-time data updates and improved scalability
- Developed authentication features with **Firebase Authentication**, ensuring secure user signups and logins
- Worked with **Git/GitHub** for version control, **Jira** for task management, and participated in code reviews and Agile sprints

Teaching Assistant for Queen's University

September 2022 – Present

Queen's School of Computing

Kingston, ON

- Taught CISC322 (**Software Architecture**), CISC325 (**Human-Computer Interactions**), CISC203 (**Discrete Mathematics for Computing II**), CISC124 (**Introduction to Computing Science II**)
- Evaluated over **200** assessments per semester, providing feedback that improved student the understanding of course concepts in **software architectural systems**, UI/UX design concepts with **Figma**, and **Object-Oriented Programming**

Related Experiences/Activities

Senior Software Developer

April 2024 - Present

Queen's Technology and Media Association

Kingston, ON

- Lead a team of developers in designing and building a **full-stack** web application to enhance stock screening efficiency
- Developed dynamic pages and responsive components using **Next.js, TypeScript, and Tailwind CSS**
- Integrated **Firebase Authentication** for secure user access and **Firestore** to quickly access real-time data in under **1 second**
- Implement backend services with **AWS Lambda (Python)** and expose backend functions via **AWS API Gateway**

PROJECTS

Calorie Tracker App / TypeScript, React Native, Tailwind CSS, Node.js, Express, MongoDB, Mongoose, Firebase

- Developed a full-stack mobile application using **React Native Expo** and **TypeScript** as the frontend, **Node.js** and **Express** on the backend, and **MongoDB** as the database
- The application logs user's food intake, utilizing nutritional data from **Edamam API**
- Implement user authentication using **Firebase Authentication**
- Provides users with insights into their consumed nutrients through easy-to-understand charts and graphs using **Chart.js**

YouTube to MP4 Converter / Python, Tkinter, Flask, Bootstrap, HTML/CSS

- Created a web application that takes a YouTube video URL, and saves the video as an MP4 file
- Uses **Flask** for routing, and uses **HTML** and **CSS** on the front-end

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C/C#/C++, SQL (Postgres), HTML/CSS

Frameworks/Libraries: React.js, Next.js, Vue.js, Express.js, Django, Flask, Material UI, React Native, Flutter, Tailwind CSS, Jest

Technologies: Node.js, MongoDB, AWS, Firebase, Redux, MySQL, Android, Git, CI/CD Github Actions