

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, 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 full stack web and mobile software solutions for sensitive medical and research applications, collaborating directly with **10+** clients to ensure project specifications were met using **React**, **Next.js**, **Node.js**, **Django**, **React Native**, **Flutter**, **MongoDB**, **PostgreSQL**, and **Docker**
- Enhanced UI/UX features using **Material UI** and **Tailwind CSS**, improving user experience by **15%**
- Improved API fetching and reduced loading times of statistical graphs and medical data by **30%** by optimizing **MongoDB** performance through strategic indexing, caching, and streamlined aggregation pipeline design to minimize query latency
- Automated testing pipelines using **Jest**, **Flutter**, and **Django**, reducing testing time by up to **10 hours per week**

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
- Develop responsive frontend using **Next.js**, **TypeScript**, and **Tailwind CSS**, integrating **Firebase Authentication** for secure user access
- Implement backend services with **AWS Lambda (Python)** and expose backend functions via **AWS API Gateway**

Partnerships Director

April 2023 - February 2024

QHacks

Kingston, ON

- Worked with a team of 32 people to organize and host Queen's University's annual in-person hackathon
- Secured sponsorships of **\$40000** from National Bank, TD, CSE, CPP Investments, Manulife, OTPP, and more

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**
- Implements user authentication using **Firebase Authentication**
- Provides users with insights on their consumed nutrients through easy-to-understand charts and graphs

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 frontend

XIVI: I have Lived | *C#, Unity*

- Worked with a 3-member team to develop a 2D single-player point-and-click puzzle game

TECHNICAL SKILLS

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

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

Technologies: Node.js, MongoDB, AWS, Firebase, Android, Unity, Selenium, Git, CI/CD Github Actions, Docker