Eric Lam

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Skills

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js, Node.js, Express, FastAPI, Redux, Jest, React Native, Flutter,
Devops & Cloud: AWS (Lambda, S3, E2C), Firebase, Git, JIRA, Docker, CI/CD (GitHub Actions)
Database & APIs: MongoDB, PostgreSQL, REST APIs, OpenAI API

Experience

Software Developer Intern   Kingston, ON
Centre for Advanced Computing   May 2023 - July 2024
- Built and deployed **5+** full-stack web and mobile apps using **React (TypeScript)**, **Node.js**, **MongoDB**, **Django**, and **Flutter**
- Developed client facing dashboards with real-time visualizations using **Next.js (TypeScript)** and **Chart.js**, enhancing usability for **500+** medical staff and researchers
- Designed and optimized **REST APIs** in **Node.js** with **Express.js** to manage data from a **MongoDB** database, improving API response times by **35%** through indexing and caching strategies
- Engineered a PDF generation tool for exporting dashboard data into downloadable summaries using **React** (**TypeScript**), saving clients over **4 hours** of manual work per week and boosting productivity by **65%**
- Integrated and maintained **CI/CD** pipelines on several projects using **GitHub Actions**, increasing delivery speed by **30%**
- Automated unit and integration tests with **Jest** and **Flutter**, reducing manual QA effort by **10+ hours/week**

Web Developer Intern   Toronto, ON
OMNIVERSITY   Jan. 2022 - Apr. 2022
- Designed responsive pages and user-facing features using **React** and **Tailwind CSS**, enhancing user flow efficiency by **40%**
- Built authentication features with **Firebase Authentication** to ensure secure user signups and logins
- Utilized **Figma** for UI/UX planning, **Git/GitHub** for version control, and **Jira** for task management

Teaching Assistant for Queen's University   Kingston, ON
Queen's School of Computing   Sep. 2022 - Apr. 2025
- Mentored 200+ students in Software Architecture, HCI with **Figma**, OOP in **Java**, and Discrete Math
- Reinforced key software concepts including Agile workflows, UI/UX fundamentals, and modular architecture

Leadership Experience

Senior Software Developer | *Queen's Technology and Media Association*   *Kingston, ON* | Apr. 2024 – Apr. 2025
- Led a 4-member team in developing a full-stack stock screening web app using **Next.js (TypeScript)** and **OpenAI API**
- Designed microservices-based backend with **AWS Lambda (Python)** + **AWS API Gateway**, achieving **99.9%** uptime
- Integrated **Firebase Authentication** for secure user access and **Firestore** for real-time data access in under **1 second**
- Integrated **CI/CD** automation via **GitHub Actions** and deployed live app using **Vercel**

Projects

UFClue | *NextJS (TypeScript, Tailwind CSS), Python (FastAPI, scrapy), NodeJS, Express, MongoDB*   May 2025 - Present
- Built and deployed a full-stack web application game on **Vercel** where users guess UFC fighters based on attributes
- Designed responsive UI components and optimized for SEO performance using **Next.js (TypeScript)** with a **Python FastAPI** backend and **MongoDB** database
- Scraped data using a **Python Scrapy** script and automated weekly data extraction with **GitHub Actions**

Calorie Tracker App | *React Native (TypeScript, Expo), Node.js, Express, MongoDB, Firebase*   June 2024 - Aug 2024
- Full-stack mobile app for logging daily food intake using **React Native Expo** on the frontend, and **Node.js** with **Express** on the backend
- Built easy-to-understand charts for users to gain detailed insights on their nutritional intake using **Chart.js** with **Tailwind CSS**
- Implemented **Edamam API** for nutritional data, **Firebase Authentication**, and **MongoDB** with **Mongoose** for data storage

Education

Queen's University   *Kingston, ON*
Bachelor of Computing (Honours) - Specialization in Software Design   *Sep. 2020 - Apr. 2025*
- **GPA**: **3.94 / 4.0**
- Dean's List for Academic Years: 2020-2021, 2021-2022, 2022-2023, 2024-2025