David Liu

Email: d285liu@uwaterloo.ca, Github: github.com/dliu27 🔗 , Website: dliu27.netlify.app 🔗

Skills

➤ Languages: JS(X), Apollo GraphQL, HTML/CSS, Python, Bash, C, C++, Java

➤ Libraries/Frameworks: React, Node, styled-components, React-Bootstrap, Lodash, Express, Moment, dotenv

➤ Other Skills: Git, React Hooks Stripe / Slack Integration, Chrome Extension, Github, Heroku, Netlify, VSCode, Bash

Experience

Get Aboard Inc. Full-Stack Developer (Growth-Stage **Startup**)   Jan. 2022 - Apr. 2022

➤ Developed 3 major UI overhauls for the Aboard SPA according to designer and customer requirements, using **React**, **GraphQL**, JSX, Node, **styled-components**, etc. affecting over **30+ mid-size companies in production**

➤ Implemented a **scalable** cache-first approach in **Apollo GraphQL** to decrease load times **from 10 seconds to instantanious** and reduce DB queries by **90%**

➤ Reviewed frontend/backend code from intern to senior level, and thrived in a fast-paced **Agile** environment

➤ Created fully-custom React components such as Billing Page w/ **Stripe integration,** BootstrapTable, Notifications w/ **Slack integration**, Pagination, Search Bar, and integrated the associated backend code

➤ Took accountability and reliably fixed production defects in own code and other code **before EoD turnaround**

➤ Regularly performed GraphQL **migrations, queries, and mutations** to ensure changes on the production database

Maesos Technologies Inc. Full-Stack Developer (Early-Stage **Startup**)   May 2021 - Aug. 2021

➤ Created a real-time web dashboard that visualizes IoT farm sensor readings to clients, offers actionable insights based on data, and alerts users of dangerous conditions, using **React**, **Express**, **Node**, and **HTML/CSS**

➤ Frequently **collaborated and contributed** ideas with the Product Manager and the Designer to ensure the product meets requirements, and **self-started** all working responsibilities, receiving an "**Outstanding**" rating

➤ Created a **REST API** for pushing field notifications to the dashboard UI, reusable data visualization components, and automated data processing scripts for actionable insights, to be released in **production for 10+** pilot projects

➤ Regularly reviewed documentation, and created new documentation for future software engineers at the **startup**

Education

University of Waterloo Computer Science Co-op   Sep. 2020 - May 2025

➤ 3.76 cGPA (**84%**), Recipient of President's Scholarship (90+ avg in high school)

➤ Relevant courses: Object-Oriented Software Development, Algorithm Design / Data Abstraction

Projects

Productivity++ Chrome Extension 🔗   Jun. 2020 - Present

➤ Created a custom version of **Momentum** from scratch as a Chrome Extension due to lack of feature extensibility

➤ Implemented an interface and new features such as a productivity tracker, todo lists with persistent **CRUD**, and notifications using **JS**, **HTML Web Storage API**, and **chrome.extension API** with **low coupling / high cohesion**

➤ Increased personal working time by **30%** and is used daily to ensure all school/work/life deadlines are met

Somebody Call 911 Hackathon 🔗   Jan. 2021

➤ Created a Full-Stack web application using Node, Express, Bootstrap to automate a 911 call in emergency situations

➤ Used **ExpressJS** and **NodeJS** to build the backend and integrated the **Google Geolocation and Vonage Voice APIs** to send user location / emergency details to our server, generating a call to 911 in less than **4** seconds

➤ Connected the frontend to the backend flawlessly and deployed a functional application on **Heroku** in only **3** days