

Justin Lau

ASPIRING ENGINEER AND INNOVATOR

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Education

University of Waterloo

Waterloo, ON

Bachelor of Computer Engineering (3.9/4.0 GPA)

2022 — Present

Courses: Data Structures & Algorithms, Object Oriented Programming, Systems Programming & Concurrency

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, C#, C, C++

Libraries/Frameworks: Node.js, React, Redux, .NET, Next.js, Express, Flask

Databases: MySQL, SQL Server, Firebase, MongoDB, PostgreSQL

Tools/Methodologies: Git, Github, Docker, AWS, Azure, GCP, NSubstitute, Postman, Figma, Jira, Agile

Experience

Software Engineer — Data Engine Team

Sept. 2024 — Dec. 2024

SPS Commerce

Minneapolis, MN (Remote)

- Incoming Fall 2024 intern
- Tech stack: MySQL for the database, ASP.NET for backend, and React for frontend

Software Engineer — Analytics Engineering Team

Jan. 2024 — April 2024

SPS Commerce

Minneapolis, MN (Remote)

- Built **REST APIs** for servers in **ASP.NET Core** to automate supplier data insights/analysis from **SQL DBs**
- Reduced project downtime by developing **React** UIs & API endpoints for a new in-app/email notification system
- Managed **AWS** Cloudformation to build **CI/CD pipelines** alongside **Azure DevOps** and CodeDeploy
- Enhanced data security and flow by integrating **AWS EC2 & Lambda** into existing and legacy software systems

Software Developer – Innovation Team

May 2023 — Aug. 2023

BCS Automation (Seaspan)

Belleville, ON

- Developed a data pipeline in **ASP.NET** & **Azure CORS** to simulate ships for Canada's VR platform **HoloShip**
- Designed **20+ RESTful API endpoints**, enabling streamlined data insights & analytics across VR applications
- Enhanced data flow by **30%** by designing **MySQL** queries to organize & optimize data from **5300+ sensors**
- Created libraries to provide VR apps with utility functions for HTTP requests and automated 3D simulations

Software Engineer – Frontend Team

Jun. 2022 — Aug. 2022

HealthSmart Technologies

Toronto, ON

- Built a platform in **React** & **Node.js** to improve access to electronic medical records for healthcare stakeholders
- Integrated & developed an in-platform AI chatbot, improving user communication by **25%**
- Developed dynamic 3D visualization web pages with Three.js & Blender, improving engagement by **40%**
- Implemented Hyperledger blockchain security protocols for user profiles, ensuring confidential patient information

Projects

ReadRight — Won Toronto's largest hackathon 🏆 | React, Express, Node.js, Firebase, Google Cloud, Cohere

- Built a gamified English reading aid platform in **React** with **AI-generated** sentences and voice analysis
- Implemented endpoints in **Express**, **Firebase** user auth, and Google Cloud's API for reading accuracy analysis

BubbleMathics — Won HawkHacks (750+ hackers) 🏆 | React, MongoDB, Express, Node.js, Vite, Socket.io

- Developed a full-stack MERN math learning platform that allows students to compete in real-time
- Integrated **Socket.io** for real-time multiplayer interactions and **MongoDB** to store game statistics

Achievements

Hack The North Winner (x2) - Canada's largest hackathon (1000+ participants)

Lighthouse Hacks Founder - Mississauga's largest hackathon (300+ participants & \$40,000+ in prizes)

10,000+ YouTube Subscribers - Tech/animation videos with 5 million+ views!

Karate Brown Belt - I'm training for my black belt!