



Justin Lau

 [linkedin.com/in/jlau04](https://www.linkedin.com/in/jlau04) |  github.com/justinscitech |  jlau.study

TECHNICAL SKILLS

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

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

Tools: AWS, Linux, Git, MySQL, MongoDB, Postgres, Docker, Kubernetes, Azure, Snowflake, Firebase, Agile

EXPERIENCE

Roblox | *Software Engineer Intern (Voldex)*

Jan 2025 – April 2025

- W2025 Roblox software engineer intern in the Roblox accelerator program in Voldex, reaching millions of users

SPS Commerce | *Software Engineer Intern (Data Engine)*

Sept 2024 – Dec 2024

- Developed new retailer data transformation pipelines using **C#, TypeScript, Snowflake, and AWS Step Functions** to improve retailer data accuracy and price tracking, serving **1200+ retailers** worldwide
- Developed internal tooling for automated deployment and version-tagging of infrastructure resources for a **Dockerized** monorepo using **Azure CI/CD pipelines & AWS S3** for file syncs, streamlining the process for managing cloud services
- Built a RESTful API to repair & migrate outdated SQL tables in **Snowflake**, enhancing data reliability & maintainability

UW Blueprint | *Software Developer*

Sept. 2024 – Present

- Built a pet adoption platform for animal care centres using **TypeScript, React, & Firebase**, aiding **1000+** pets
- Deployed **RESTful Express** APIs to streamline activity logging in **PostgreSQL**, allowing clients to manage events & users
- Integrated user authentication and role-based access control using **Node.js & Firebase**, ensuring secure logins

SPS Commerce | *Software Engineer Intern (Platform Analytics Team)*

Jan 2024 – April 2024

- Refactored **20+ API endpoints** and SQL queries to migrate legacy infrastructure, improving **MySQL-based C# APIs** for processing data from over **1200** retailers worldwide
- Managed **AWS** Cloudformation to build **CI/CD pipelines** alongside **Azure DevOps** and CodeDeploy
- Implemented retailer notifications via APIs and customizable **React & TypeScript** UIs for dynamic in-app alerts
- Introduced automated integration testing using **NUnit**, improving QA processes by **30%** & error tracking in Sentry

BCS Automation | *Software Developer Intern*

May 2023 – Aug 2023

- Built an **ASP.NET Core** backend hosted on **Azure** to establish an **ETL** data pipeline, enabling real-time ship sensor analytics and **VR** simulations for Canada's **HoloShip** program, securing a contract worth **\$750,000**
- Designed **20+ RESTful API endpoints**, enabling streamlined data insights & analytics across VR applications
- Expanded the scalability of a cloud-hosted Azure **MySQL** database by partitioning data into different pipelining stages with enhanced SQL joins & summary views, enabling support for **5300+ IoT sensors**
- Created **C++ libraries** to provide VR apps with utility functions for HTTP requests and automated 3D simulations

PROJECTS

 **Klinkapp.com** | *React, React Native, MongoDB, Node.js, Next.js, Socket.io*

- Led 5 engineers using **agile methodology** to build a **React/React Native** webapp for content creator sponsorships and CRM, scaling to **1000+ active users**
- Improved **SEO** for **React** app using caching and image optimization, reducing homepage load time from 3s to 1s

 **AI Robotic Piano Player — 1st Place in Canada** | *Python, OpenCV, Raspberry Pi 3, Bash*

- Built a robot that scans and plays piano sheet music using **OpenCV**, winning Canada's largest hackathon

EDUCATION

University of Waterloo, *Candidate for Bachelor of Computer Engineering*

Sept 2022 — Present

- GPA:** 3.90 (4x Term Distinction, Nortel Networks Scholarship, Professional Engineers of Ontario Scholar)
- Awards:** \$10,000 Engineering Scholarships, 2x Hackathon Founder (Recognized by the Raised **\$45K+**), **2x National Hackathon Winner** (2023 & 2024)