

Brendan Lynch

Full Stack Engineer

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SUMMARY

I build elegant and intuitive web applications. I am driven by the intersection of thoughtful design and the inherent complexity of interconnected systems.

WORK EXPERIENCE

LabsCubed

Full Stack Engineer

06/2025 - Present

Kitchener, ON

- Developed and maintained full stack features for **microservices-based** flexure and tensile testing robots utilizing a tech stack including: **JavaScript**, **Node.js**, **MongoDB**, **React**, **Express**, and **Python**.
- Designed and deployed a simulation of our **microservices-based** robot on **AWS**, enabling the sales team to demo machines to prospective clients remotely, increasing sales funnel conversion rates by 200%. Incorporates **EC2**, **Cognito**, and more.
- Improved outbound client vetting efficiency by 1000% by designing and building our customer prospecting tool. The tool automatically researches, and scores potential leads. The tool leverages HubSpot, web crawling, 3rd party **APIs**, and structured LLM queries.
- Reduced machine issue diagnosis time by delivering a new **React** machine dashboard showing real-time machine status and sample testing progress.
- Reduced setup time and configuration drift by creating a standardized repository for **reverse proxy** and **Cognito** configurations, making demo and production setups repeatable and easy to deploy.
- Improved user accessibility by introducing new settings page with more key features; including: network configuration, file shares, auto signout, and locking down advanced settings to prevent user error.
- Eliminated technician calibration error by building the step-by-step calibration wizards to guide our technicians through diagnosing problems and drafting certificates. Frontend in **React**, backend is **MongoDB**, **Node.js** and **Express**.

EDUCATION

University of Victoria

BSc in Computer Science

04/2021 - 06/2025

Victoria, BC

PROJECTS

Rebiblio

Local Libraries Brought to the Web

05/2025 - 06/2025

Waterloo, ON

- Facilitated peer-to-peer book exchanges by digitizing local collections, protecting inventory from environmental damage, and stabilizing the "race to the bottom" inherent in community libraries.
- Leveraged **Uber H3** to connect users with nearby users, optimizing proximity based exchanges.
- Deployed **React**, **Node.js**, and **MongoDB** application on **AWS**, integrating multiple 3rd party **APIs**.

CERTIFICATIONS

University of Helsinki

Full Stack Open

09/2024 - 02/2025

Online

- React, Node.js, Express.js, MongoDB, Redux, RR7, useContext, Custom Hooks, Playwright, GraphQL, React Native, CI/CD.

SKILLS

- Languages: **JavaScript**, **TypeScript**, **Python**, C, C++, HTML, CSS.
- Frameworks & Libraries: **React**, **Express.js**, **Fastify**, **Tailwind CSS**, **ShadCN**, **MaterialUI**, **Playwright**, Vitest.
- Infrastructure & Tools: **AWS**, **Docker**, Git, **MongoDB**, SQL, **REST**, **GraphQL**.