Bryan Lin

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Technical Skills

Languages: Python, TypeScript, JavaScript, C/C++, SQL, Java, Bash

Frameworks: React.js, Next.js, Node.js, Django, Express.js, Flask, PostgreSQL, MySQL

Technologies: Git, GCP, AWS, Docker, Linux Shell, MongoDB, Supabase, GraphQL, Nginx

Experience

Hims & Hers (formerly Livewell) Jun 2025 – Sep 2025

Software Engineer Intern *Montreal, QC*

- Built a full-stack AI chatbot helping 20,000+ patients interpret blood tests, cutting support inquiries by 26%
- Simplifying complex medical data by building a React dashboard visualizing blood test data with **Chart.js**
- Developed **GitHub Actions** CI/CD pipelines, reducing deployment time and accelerating product iteration by 40%

Scholarship W. Feb 2025 – Apr 2025

Full-Stack Developer Intern *Toronto, ON*

- Increased scholarship accessibility by matching 15,000+ students to personalized opportunities through a hybrid **recommendation system** that combined collaborative and content-based filtering
- Built a multi-factor scoring system to match students with scholarships, boosting matches 17% across 1,100+ awards
- Refactored ~2,000 lines of a **Django** backend (30+ REST endpoints) and **MySQL** schema, simplifying API logic

Projects

League of Studies | *Typescript, Supabase, React, Next.js* GitHub | Demo

- Won **1st Place** in the MLH GoDaddy Challenge at JACHacks, outperforming 100+ participants
- Engineered a multiplayer studying web application using Next.js, featuring death-match and cooperation modes
- Integrated Gemini 2.5 Flash for custom question generation from text/PDF to populate content automatically
- Managed user identity and data persistence by integrating **Supabase** authentication and a **PostgreSQL database**

Amazon Logistics Router | *Python* GitHub

- Developed a congestion-adaptive, bandwidth-aware routing algorithm for efficient package delivery
- **Winner at the Amazon Robotics Hackathon** for outperforming all competing solutions
- Optimized delivery paths using Dijkstra's algorithm, achieving over 20% higher efficiency than other teams

SaaScript | *C language* GitHub

- Built **SaaScript**, a "tech buzzwords" interpreted language featuring a custom bytecode virtual machine in **C**
- Implemented a full **lexer, parser, and bytecode compiler** to translate high-level code into executable bytecode
- Developed custom arrays, vectors, and hashmaps from scratch to support the language's runtime and VM.

Breast Cancer Tumour Classifier | *Python, TensorFlow, NumPy* GitHub

- Designed a **neural network from scratch** only using NumPy to classify breast tumors as benign or malignant.
- Achieved over 95% precision and 90% recall scores on tumor classification with the neural network model.
- Developed a **MySQL pipeline** to manage neural network weights, biases, and training data for scalable retraining.

Education

University of Waterloo Waterloo, ON

Bachelor of Engineering in Software Engineering, Co-op *GPA: 3.98/4.00 (93%)*

- Received $2000 *President's Scholarship*, WatCloud Design Team