

# BRYAN LIN

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## EXPERIENCE

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### Hims & Hers

Software Engineer Intern

Jun 2025 – Sep 2025

Montreal, QC

- Built a full-stack AI chatbot helping 20,000+ patients interpret blood tests, cutting support inquiries by 26%
- Integrated **LangChain** RAG pipeline with model-based guardrails ensuring accurate and safe medical responses
- 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.

Full-Stack Developer Intern

Feb 2025 – Apr 2025

Toronto, ON

- Refactored ~4,000 lines of a **Django** backend (30+ REST endpoints) and **MySQL** schema, simplifying API logic
- 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

## PROJECTS

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### Tailored | *LangChain, Playwright, AWS, Docker*

[GitHub](#) | [Demo](#)

- Built cover letter generator with Playwright job scraping, chat-based refinement, and LaTeX PDF compilation
- Implemented LangChain for template retrieval via pgvector embeddings and context-aware generation on AWS RDS

### 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**

### 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

## TECHNICAL SKILLS

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**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, LangChain, Linux Shell, MongoDB, Supabase, GraphQL, Nginx

## EDUCATION

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### University of Waterloo

Bachelor of Engineering in Software Engineering, Co-op (available for 4 months)

Waterloo, ON

GPA: 3.98/4.00 (93%)

- Received \$2000 President’s Scholarship, WatCloud Design Team