

Bryan Lin

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EDUCATION

University of Waterloo

Bachelor of Engineering in Software Engineering, Co-op

- Received the *President's Scholarship* worth \$2000

Waterloo, On

Sep. 2025 – May 2030

Marianopolis College

Honours Pure and Applied Sciences

- Co-founded the Marianopolis Open-Source Society
- Dean's List for Fall 2024 and Winter 2025 semester, Global R-Score: 38.016 (94% average)

Montreal, QC

Aug. 2024 – May 2025

EXPERIENCE

Software Engineer Intern

Livewell

- Enabled **12,000+** patients to understand blood test results by developing a full-stack AI chatbot using **Flask**, **Docker**, **GCP**, **OpenAI**, **Next.js**, and **Firebase**
- Increased user retention **22%** by creating a blood test visualization dashboard using **React** and **Chart.js**, simplifying complex medical data
- Accelerated product delivery by **collaborating** in a small cross-functional team and implementing **CI/CD pipelines** with **Git**, resulting in faster iteration cycles and smoother integration

Jun. 2024 – Present

Montreal, QC

Full-stack Developer Intern

Scholarship W.

- Increased scholarship accessibility by matching **15,000+** students to personalized opportunities through a hybrid **recommendation system** that combined **collaborative** and **content-based filtering**
- Improved matching accuracy by **32%** and boosted user engagement by **25%** by iteratively tuning algorithms and validating against real student-scholarship data
- Enhanced scalability and efficiency by developing a robust data preprocessing and feature selection pipeline with **Django REST APIs**, **SQL** integration, and optimized backend logic

Feb. 2025 – Apr. 2025

Toronto, On

PROJECTS

BryteLinker | C language

- Building **Bryte Linker**, an interpreted programming language featuring a custom bytecode virtual machine in C
- Implementing a full **lexer**, **parser**, and **bytecode compiler** to translate high-level code into executable bytecode
- Designing an efficient **stack-based VM** to optimize instruction dispatch, memory use, and runtime performance

July 2025 - Present

League of Studies (*Try It Out*) | Typescript, Supabase, React, Next.js, Docker

- Collaborated in a team of 4 to build a **gamified study platform** with multiplayer matches and live leaderboards
- Handled full-stack implementation with **Next.js**, **TailwindCSS**, and Supabase in under 24 hours
- JACHacks 2025 Hackathon Winner** — Recognized for innovative use of domain and seamless user experience under time constraints

April 2025

Breast Cancer Tumour Classifier | Python, TensorFlow, NumPy

- Trained and tested multiple Supervised Learning Models, such as Support Vector Machines, Logistic Regression Models and **Neural Networks by scratch** using only NumPy to classify breast growths as benign or malignant
- Designed and built a MySQL architecture to efficiently store neural network training data, weights, biases, and architecture information, creating a persistent and scalable machine learning system
- Achieved obtaining an over **95%** precision score and an **90%** recall score by training the Support Vector Machine

December 2024 – February 2025

TECHNICAL SKILLS

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

Frameworks: React, Node.js, Django, Express.js, Next.js, Firestore, Flask

Developer Tools: Git, Google Cloud Platform, Docker, Vim, VS Code

Libraries: Pandas, NumPy, Matplotlib, TensorFlow, Scikit-Learn, React