Bryan Lin

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Education

University of Waterloo — Waterloo, On
Bachelor of Engineering in Software Engineering, Co-op — *Sep. 2025 – May 2030*
- Received the *President's Scholarship* worth $2000

Marianopolis College — Montreal, QC
Honours Pure and Applied Sciences — *Aug. 2024 – May 2025*
- Co-founded the Marianopolis Open-Source Society
- Dean's List for Fall 2024 and Winter 2025 semester, Global R-Score: 38.016 (94% average)

Experience

Software Engineer Intern — Jun. 2025 – Sep. 2025
Livewell — *Montreal, QC*
- 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

Full-stack Developer Intern — Feb. 2025 – Apr. 2025
Scholarship W. — *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**
- 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

Projects

BryteLinker | *C language* — July 2025 - Present
- 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

League of Studies *(Try It Out)* | *Typescript, Supabase, React, Next.js, Docker* — April 2025
- 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

Breast Cancer Tumour Classifier | *Python, TensorFlow, NumPy* — December 2024 – February 2025
- 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

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