

# Bryan Lin

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## EDUCATION

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| <b>University of Waterloo</b><br><i>Bachelor of Engineering in Software Engineering, Co-op</i> | Waterloo, On<br>Sep. 2025 – May 2030 |
| • Received the <i>President's Scholarship</i> worth \$2000                                     |                                      |
| <b>Marianopolis College</b><br><i>Honours Pure and Applied Sciences</i>                        | Montreal, QC<br>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

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| <b>Software Engineer Intern</b><br><i>Livewell</i>   | Jun. 2024 – Present<br>Montreal, QC  |
| • Enabled <b>3,000+</b> patients to understand blood test results by developing a full-stack AI chatbot using <b>Flask</b> , <b>Docker</b> , <b>GCP</b> , <b>OpenAI</b> , <b>Next.js</b> , and <b>Firebase</b>     |                                      |
| • Increased user retention <b>22%</b> by creating a blood test visualization dashboard using <b>React</b> and <b>Chart.js</b> , simplifying complex medical data   |                                      |
| • Accelerated product delivery by <b>collaborating</b> in a small cross-functional team and implementing <b>CI/CD pipelines</b> with <b>Git</b> , resulting in faster iteration cycles and smoother integration    |                                      |
| <b>Full-stack Developer Intern</b><br><i>Scholarship W.</i>  | Feb. 2025 – Apr. 2025<br>Toronto, On |
| • Designed and deployed a hybrid recommendation system combining <b>collaborative</b> and <b>content-based filtering</b> to match students with personalized scholarship opportunities.                            |                                      |
| • Built a robust data preprocessing and feature selection pipeline with Django REST APIs, SQL-backed database integration, and scalable backend logic to handle diverse student profiles and scholarship criteria. |                                      |
| • Improved matching accuracy by <b>32%</b> and boosted user engagement by <b>25%</b>   |                                      |

## PROJECTS

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|--|-------------------------------|
| <b>BryteLinker</b>   <i>C language</i>   | July 2025 - Present           |
| • Building <b>Bryte Linker</b> , an interpreted programming language featuring a custom bytecode virtual machine in C  |                               |
| • Implementing a full <b>lexer</b> , <b>parser</b> , and <b>bytecode compiler</b> to translate high-level code into executable bytecode  |                               |
| • Designing an efficient <b>stack-based VM</b> to optimize instruction dispatch, memory use, and runtime performance   |                               |
| <b>League of Studies</b> ( <i>Try It Out</i> )   <i>TypeScript, Supabase, React, Next.js, Docker</i>   | April 2025                    |
| • Collaborated in a team of 4 to build a <b>gamified study platform</b> with multiplayer matches and live leaderboards   |                               |
| • Handled full-stack implementation with <b>Next.js</b> , <b>TailwindCSS</b> , and Supabase in under 24 hours  |                               |
| • <b>JACHacks 2025 Hackathon Winner</b> — Recognized for innovative use of domain and seamless user experience under time constraints  |                               |
| <b>Breast Cancer Tumour Classifier</b>   <i>Python, TensorFlow, NumPy</i>  | December 2024 – February 2025 |
| • Trained and tested multiple Supervised Learning Models, such as Support Vector Machines, Logistic Regression Models and <b>Neural Networks by scratch</b> 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 <b>95%</b> precision score and an <b>90%</b> 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, PyCharm, IntelliJ  
**Libraries:** Pandas, NumPy, Matplotlib, TensorFlow, Scikit-Learn, React