

# Bryan Lin

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## EDUCATION

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

<b>Software Engineer Intern</b> <i>Livewell</i>	Jun. 2024 – Present Montreal, QC
• Enabled <b>12,000+</b> patients to understand blood test results by developing a full-stack AI chatbot using <b>Flask, Docker, GCP, OpenAI, Next.js, and Firebase</b>	
• Increased user retention <b>22%</b> by creating a blood test visualization dashboard using <b>React and 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> <i>Scholarship W.</i>	Feb. 2025 – Apr. 2025 Toronto, On
• Increased scholarship accessibility by matching <b>15,000+</b> students to personalized opportunities through a hybrid <b>recommendation system</b> that combined <b>collaborative</b> and <b>content-based filtering</b>	
• Improved matching accuracy by <b>32%</b> and boosted user engagement by <b>25%</b> 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 <b>Django REST APIs, SQL</b> integration, and optimized backend logic	

## PROJECTS

<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, parser, and 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, TailwindCSS, and Supabase</b> 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, Vim, VsCode  
**Libraries:** Pandas, NumPy, Matplotlib, TensorFlow, Scikit-Learn, React