

# Dylan Li

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## EDUCATION

### University of Waterloo

Waterloo, ON

B.C.S. Computer Science Honours Co-op (GPA: 3.9/4.0)

September 2021 – June 2026

- Awards: President's Scholarship of Distinction, 6x Term Distinction
- Coursework: Data Structures, Algorithms, Operating Systems, Networks, Artificial Intelligence, Machine Learning

## EXPERIENCE

### Meta

Bellevue, WA

Software Engineering Intern (BatchFlow Team)

May 2025 – August 2025

- Building infrastructure to support data ingestion to the data warehouse using Java and C++.

### Digital Extremes

London, ON

Programmer (Soulframe)

May 2024 – July 2024

- Improved AI navigation by up to 70% using A\* pathfinding to integrate nav mesh with road networks in C++.
- Shrank codebase size by 5%, improving maintainability by creating a reusable data-driven C++ animation module.
- Developed a leader-follower system in C++ to reduce AI pathing conflicts and improve group realism.

### Digital Extremes

London, ON

Programmer (Warframe)

September 2023 – December 2023

- Implemented core logic for 2 AI agents in one of Warframe's highest-rated updates reaching 60M+ players.
- Designed an event-driven system in C++ for triggering animations, improving AI agent responsiveness.
- Revamped the modular weapon system in C++ to add support for premium cosmetics.
- Eliminated 15% of runtime errors in Lua by deploying a hotfix to handle failed agent creation.

### Huawei Technologies Canada Co., Ltd.

Toronto, ON

C++ Software Developer

January 2023 – April 2023

- Built a C++ profiling tool with KCachegrind integration with up to 96% lower CPU overhead than Callgrind.
- Optimized FPGA routing efficiency by up to 88% by implementing a multi-sink pathfinding algorithm in C++.
- Accelerated automated self-contained header verification by 95% using CMake, Python, and Bash.

### Canadian Imperial Bank of Commerce (CIBC)

Toronto, ON

Test & Quality Assurance Analyst

May 2022 – August 2022

- Reduced unusable data by 64% in electronic fund transfer reports with improved SQL queries.
- Verified data integrity using SQL to facilitate production database migrations supporting 540k daily transactions.

## PROJECTS

**dylan-li.com** | *React, Vite, Express, Node.js, Axios, Phaser, JavaScript, Render, Supabase, Vercel, OpenAI*

- Created a pixel-art website using React and Express with Duolingo, YouTube, and LeetCode API integration.
- Fine-tuned a GPT-4o-mini chatbot with retrieval-augmented generation using Supabase vector store.

**neuroLullaby** | *Python, Google Cloud Text-to-Speech*

- Collaborated with 3 peers to develop a sleep aid app in Python by generating and reading bedtime stories using AI.
- Integrated Google Cloud Text-to-Speech with BrainCo EEG to adjust pitch, speed, and volume to brain activity.

**Duo or Not** | *Python, TensorFlow, Scikit Learn, NumPy, React, Vite, Vercel*

- Trained a binary classifier using MobileNetV2 to detect if the Duolingo owl is in an image with 98% accuracy.
- Engineered a data pipeline to scrape, clean, and preprocess web-sourced images for training and evaluation.

## SKILLS & INTERESTS

**Languages:** C++, Python, JavaScript, Java, C#, C, Lua, SQL, Bash

**Technologies:** Git, CMake, PyTorch, NumPy, Scikit-Learn, Pandas, Flask, Unity

**Interests:** Duolingo Korean streak (1000+ days), tennis club exec, Stanford Code in Place Section Leader