Dylan Li

U.S. Citizen | linkedin.com/in/dylan-cjl-li | github.com/DylanLiTR | dylan.li@uwaterloo.ca

EDUCATION

University of Waterloo **Waterloo, ON**
B.C.S. Computer Science Honours Co-op (Cumulative GPA: 3.9/4.0) *September 2021 – April 2026*
- Awards: President's Scholarship of Distinction, 5x Term Distinction, President's International Experience Award
- Coursework: Artificial Intelligence, Machine Learning, Data Structures, Algorithms, Computer Networks

EXPERIENCE

Meta **Bellevue, WA**
Incoming Software Engineering Intern *May 2025 – August 2025*

Digital Extremes **London, ON**
Programmer (Soulframe) *May 2024 – July 2024*
- Improved shortest path routing by up to 70% by integrating two graphs with A* pathfinding algorithm using C++.
- Shrunk codebase size by 5% by creating a data-driven animation module in C++.
- Developed a leader-follower patrol system to synchronize independent AI agents using C++.
- Created a cosmetic customization system for animals using C++ and Lua.

Digital Extremes **London, ON**
Programmer (Warframe) *September 2023 – December 2023*
- Led development of 2 AI agents in Warframe's highest-rated update launched to over 60 million players.
- Revamped the modular weapon system to add missing support for 9% of revenue-generating cosmetics in C++.
- Eliminated 15% of runtime errors by handling failed agent creation using Lua.
- Designed an event-driven system for triggering animations in C++.

Huawei Technologies Canada Co., Ltd. **Toronto, ON**
C++ Software Developer *January 2023 – April 2023*
- Decreased CPU time overhead by up to 96% by developing a lightweight C++ profiling tool with KCachegrind integration for call graph visualization.
- Increased FPGA routing efficiency by 88% by implementing a multi-sink pathfinding algorithm in C++.
- Optimized run time by 95% for automated self-contained header verification using CMake, Python, and Bash.
- Automated static code analysis with Bash and CMake to detect banned functions and implicit dependencies.

Canadian Imperial Bank of Commerce (CIBC) **Toronto, ON**
Test & Quality Assurance Analyst *May 2022 – August 2022*
- Awarded Innovation Challenge Best Overall Winner out of 18 teams for devising a financial literacy app.
- Reduced unusable data by 64% in electronic fund transfer reports with improved SQL queries.
- Facilitated database migrations for an app processing 540k transactions per day by verifying data integrity in SQL.

PROJECTS

V-Lance (3 Sponsor Prizes, ETHWaterloo 2023) | *TypeScript*
- Won $4800 in prizes by building a Web3 freelancer marketplace in a team of 5 with TypeScript.
- Integrated Sismo to verify user Github contributions and The Graph subgraphs to query Ethers smart contracts.

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.

SKILLS & INTERESTS

Languages: C++, Python, JavaScript, Java, C#, C, Bash, Lua, SQL
Technologies: Git, PyTorch, NumPy, Scikit Learn, Pandas, SQLite3, Flask, CMake
Interests: Ice hockey, audiophile headphones, open world games