

Omar El-Baytam

Toronto, ON | [LinkedIn](#) | [GitHub](#)

EDUCATION

Wilfrid Laurier University

Waterloo, ON

BSc (Honours) Computer Science, Minor in Psychology

Sept 2022 – June 2026

- **Awards:** 90%+ Entrance Scholarship, Dean's List (2022-2026)
- **Key Coursework:** Software Engineering, Data Structures, Operating Systems, Database Systems, Computer Networks, Parallel Programming, Physical Computing, Introduction to Algorithms

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, ARM Assembly, VBA

Frameworks & Libraries: React, Pandas, NumPy, Matplotlib, ESP-IDF

Databases & Infrastructure: MySQL, PostgreSQL, SQLite, Supabase, MongoDB

Tools & Systems: Git, WSL, Postman, Microsoft 365, Markdown, LaTeX, SolidWorks, Docker, Linux

EXPERIENCE

Teaching Assistant

January 2026 – April 2026

Wilfrid Laurier University

Waterloo, ON

- Responsible for grading **80+** students lab work over the term.
- Effectively tested and evaluated **ARM** code provided by students on a simulated **SOC**.
- Created and deployed web software to streamline my workflow and reduce my marking times by **50%**.

Game Programmer

Feb 2025 – Jun 2025

Billy's Cookies

Toronto, ON

- Developed gameplay systems in **Godot (GDScript)**, including player mechanics, UI elements, and interactive logic.
- Integrated modular and reusable components to improve development efficiency.
- Used **GitHub** for version control and **Freedcamp** for Agile-style task tracking.
- Collaborated with cross-functional team members to identify, troubleshoot, and optimize core features.

PROJECTS

[FrameMonkey](#) | Python, PySide6, FFmpeg, PowerShell

- Developed a GUI wrapper for **FFmpeg**, enabling quick video compression and trimming for gaming clips.
- Integrated seamless Windows context menu access to streamline media processing workflows.
- Designed interface for speed, automation, and compatibility with social media upload limits (e.g., Discord).

[HotAndCold](#) | CircuitPython, RP2040

- Created a device that uses a **UART** GPS to track the user's location and allow for a "Hot and Cold" game using user coordinates!
- Used existing Adafruit libraries to create an animation handler for an **I2C** 128x64 monochrome display.

[CodeRumble](#) | Python, Supabase/PostgreSQL, Discord.py

- A Discord bot programmed in Python that keeps track of LeetCode submissions.
- Uses the LeetCode API to generate random challenges meeting certain conditions for users to "battle"
- Keeps track of user battles using the AsyncIO library