

# Ghita Lahbabi

Software Engineering Student – Montreal/Quebec

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## Education

**Bachelor's Degree in Software Engineering**

2024 — 2028

Université Laval — QC

## Projects

**Interactive Clinical Cases (GPHC – ULaval)** — Python / React

Internal web platform for learning through clinical cases, featuring on-demand case generation using AI, developed in collaboration with medical students.

**Formula 1 Strategy Simulator** — Python

Simulator comparing different tyre strategies based on circuit characteristics, weather conditions, and tyre degradation. Algorithmic approach focused on optimization and decision-making.

**Catalog Management (GUI)** — C++ / Qt

Catalog management application with a Qt graphical interface for handling products and related information. Simple interface designed to facilitate data manipulation and visualization.

**Retro 2D RPG Game** — C++ / Raylib

2D RPG game developed in C++ using Raylib, including combat mechanics, entities, and collision handling. Real-time graphical project based on an object-oriented architecture.

**Café Study Tracker** — Python

Productivity application combining a study timer, task management, and visual progress tracking. Custom graphical interface focused on user experience.

**Email Client/Server System** — Python (TCP/IP Sockets)

Email system implemented using TCP/IP sockets for sending and receiving messages. Project illustrating the fundamentals of network communications and client/server architectures.

**Board Game with AI Opponent** — Python

Console-based board game featuring an opponent controlled by decision-making logic. Management of game states, rules, and win conditions.

**Wordle** — JavaScript

Clone of the Wordle game with user input handling and interactive feedback.

## Skills

**Programming Languages:** Python, C++, JavaScript, Java, ARM Assembly, Bash, PowerShell

**Web and UI Development:** HTML, CSS, React, Qt, Raylib, Three.js

**Libraries and Frameworks:** NumPy, Matplotlib

**Tools and Environments:** Git, GitHub, Linux, VS Code, NetBeans, JetBrains, Jupyter Notebook, LaTeX

**Concepts and Practices:** Object-oriented programming, multi-threading, TCP/IP sockets, state machines, graphical user interface development, unit testing (TDD), Agile methodologies (Scrum, Kanban)

## Certifications

**AWS Certified AI Practitioner**

January 2026

## Experience

**Student Employee — Retraite Québec**

2023 — Present

*Operational Support Analyst*

- Structuring, cleaning, and updating internal datasets using Excel.
- Automating workflows through VBA scripts.
- Generating standardized documents from structured data.