

# Ghita Lahbabi

Software Engineering Student - Montreal

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Software engineering student interested in software development, AI/ML, embedded systems, and game development. Curious, rigorous, and motivated to learn. Currently seeking a **software development internship for Summer 2026**.

## Education

**Bachelor's in Software Engineering**

*2024 — 2028 (expected)*

Université Laval — QC

## Skills

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

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

**Web and UI Technologies:** HTML — CSS — Qt — Raylib

**Libraries and Frameworks:** NumPy — Matplotlib

**Methods and Practices:** Object-Oriented Programming — Multi-threading — TCP Sockets — State Machines — Graphical Interface Development — Test-Driven Development (TDD) — Agile (Scrum, Kanban)

## Academic and Personal Projects

**Board Game with AI Opponent — Python**

Development of a game engine with an algorithmic decision-making mechanism, state management, turn logic, and move evaluation.

**Catalog Management System — C++**

Complete object-oriented architecture (inheritance, polymorphism, files). Qt graphical interface enabling navigation, searching, and repository management.

**Mail Client/Server — Python (Networks)**

Implementation of a minimal SMTP server + multi-thread TCP client. Socket management, protocols, and message sending/receiving.

**Mini RPG — C++**

Combat system, inventory, classes, game mechanics. Retro interactive interface built with Raylib (rendering, movement, interactions).

**Wordle — JavaScript / HTML / CSS**

Functional reproduction of the game: animations, validation logic, dictionary handling, and full interface.

**Study Pop-Up App — Python**

Small application for tracking study hours with a simple interface, timers, and integrated reminders.

## Certifications

**AWS Certified AI Practitioner**

*Expected December 2025*

## Relevant Experience

**Student Employee — Retraite Québec**

*2023 — Present*

*Operational Support Analyst*

- Production and updating of organizational documents (Word, Excel, PowerPoint).
- Internal automation using Excel/VBA.
- Structuring and management of internal data.