

# MOUAD BEN LAHBIB

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Ottawa, ON K1S, Canada

GitHub ◊ LinkedIn ◊ Portfolio

## SKILLS

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<b>Languages</b>	English, French, Arabic – Native/Full Proficiency
<b>Programming</b>	Python, Java, C++, Go, JavaScript, React (Web & Native), Node.js, Tailwind CSS, PostgreSQL
<b>Tools/Methods</b>	Git/GitHub, Firebase, Google Analytics, Jira, Scrum
<b>Development</b>	Software Dev, Web Dev, Algorithm Design, Data Structures, Debugging

## EDUCATION

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**Bachelor of Computer Engineering (Co-op), University of Ottawa** *Sep 2021 – Dec 2025 (Expected)*

- Tuition Fee Exemption Scholarship (\$38k/year) & Jean-Pierre Martin Scholarship (\$1k).

## EXPERIENCE

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**Software Developer (Volunteer), Hack The Hill, Ottawa** *Feb 2025 – Present*

- Assisting in hackathon organization with event coordination and software projects.

**IT Instructor (Co-op), University of Ottawa** *Sep 2024 – Dec 2024*

- Developed and delivered STEM workshops (Python/Java) integrating 3D printers, robotics, and VR.
- Trained educators in coding best practices, managed classrooms, and supported students with special needs.
- Designed coding challenges and projects to enhance problem-solving and algorithmic thinking.

**Software Engineer Intern (Co-op), Nidal Info, Morocco** *Jun 2023 – Sep 2023*

- Built and maintained internal web tools (frontend + backend) for telecom equipment management.
- Automated IT monitoring with Python, used Wireshark to optimize network performance.
- Refactored legacy codebase to improve performance, maintainability, and scalability of internal web tools.

**Data Analyst, Elemental Data Collection Inc. Ottawa, Canada** *Mar 2022 – Jun 2022*

- Automated data entry via Python (40% time savings) and conducted SQL/Excel analyses for stakeholders.
- Developed a web-based dashboard to visualize survey data, enabling real-time insights for stakeholders.

**Bilingual Technical Support Analyst, NTT, Ottawa, Canada** *Jun 2022 – Sep 2022*

- Troubleshoot payment issues, handled account verifications, and processed credit limit changes using CRM tools.
- Documented recurring technical issues, managed customer interactions and case resolution.

## PROJECTS

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### Capstone Project – TAILS

- Developing TAILS, a modular full-stack aerial solution using React Native, Expo Go, AI-based video analysis, real-time geolocation APIs, and PostgreSQL for search, rescue, and wildlife tracking.

### Portfolio Website – Mouadbenlahbib.tech

- Built a full-stack portfolio using React, Tailwind CSS, and Firebase to showcase projects and skills.
- Integrated an AI-powered chatbot for interactive technical interview simulations.
- Implemented dynamic animations, dark/light mode, and Google Analytics for an engaging user experience.

### Multi-Paradigm Movie Recommendation Engine – FilmForge

- Implementing recommendation algorithm in Java (OO), Go (Concurrent), Prolog (Logical), and Scheme (Functional) using Jaccard similarity and collaborative filtering techniques.

### Demon Slayer – 2D Action Platformer

- Developed a 2D action platformer with real-time physics, multi-level platforms, and enemy AI using Pygame.
- Implemented a cooldown-based projectile system with multiple attack types and dynamic enemy behaviors.
- Designed platform collision detection, jumping mechanics, and combat interactions for an engaging experience with 60 FPS performance.