

Yonah Anis Lahlou

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B.Sc. Candidate in Computer Science and Licensed Pilot. I apply the operational discipline and systems-thinking of aviation to software engineering. Passionate about building secure, high-performance architecture, I focus on bridging the gap between low-level systems and modern product development. I prioritize reliability and methodical precision to engineer scalable data infrastructure and optimized applications.

EDUCATION

UNIVERSITÉ DE MONTRÉAL | B.SC. COMPUTER SCIENCE AND MANAGEMENT Jan 2025 · Apr 2027
90-credit program integrating computer science and business management with a specialization in **Embedded Systems and Software Architecture**. Focuses on full-stack engineering, combining software development in **Python** and **C++** with low-level programming for **Systems on a Chip (SoC)**. The curriculum bridges operating systems and network architecture with the deployment of **Edge AI** for high-performance, real-time data processing and the management of autonomous, distributed systems.

UNIVERSITÉ DE MONTRÉAL | CERTIFICATE IN APPLIED COMPUTER SCIENCE Aug 2024 · Dec 2025
Hands-on curriculum focused on application development. Acquired proficiency in **Object-Oriented Programming** (C++, Java) and **Web Backend** (PHP), alongside fundamental **Data Structures** and **Relational Databases** (SQL).

HEC MONTRÉAL | CERTIFICATE IN BUSINESS MANAGEMENT Aug 2020 · Apr 2022
Comprehensive 30-credit curriculum providing a 360-degree view of organizational dynamics. Acquired literacy in **Finance**, **Marketing**, and **Operations**, bridging the gap between technical solutions and business objectives.

TRANSPORT CANADA FLIGHT TRAINING | PILOT LICENSURE May 2020 · Jan 2024
Credentials: Commercial Pilot License (CPAER), Private License (PPL) & Night Rating.
Accumulated ~200 flight hours (100 hours PIC) at Pratt & Whitney/Cargair. Developed mastery of complex systems with strict adherence to safety protocols, standardized procedures, and critical decision-making under pressure.

TECHNICAL SKILLS

Languages: TypeScript · JavaScript · Python · C++ · Java · SQL · PHP

Technologies: React · Node.js · Git · Linux/Unix · Bash

Focus Areas: Full-Stack Development · Systems Security · Reliability Engineering

EXPERIENCE

PASCAN AVIATION | GROUND OPERATIONS Jun 2022 · Dec 2023
Selected for an exclusive pool of future pilots through Pascan's Pilot-in-Waiting Program. Ensured regulatory compliance and high on-time performance in a dynamic operating environment.

AIR INUIT | OPERATIONS COORDINATOR Aug 2022 · Jan 2023
Coordinated complex operations across remote Arctic stations. Optimized flight plans and logistics in real-time, ensuring regulatory compliance and precise validation of critical flight parameters.

AVIATION CONNECTION CANADA | STEM PROGRAM INSTRUCTOR Sep 2021 · Sep 2022
Designed and delivered technical learning modules in aeronautics and simulation. Adapted complex engineering concepts into accessible activities to cultivate technical literacy.

PROJECTS

8-BIT BREADBOARD COMPUTER | DIGITAL ELECTRONICS, CPU ARCHITECTURE
Building an 8-bit computer from logic gates/ICs. Implementing clock, registers, ALU, RAM, and control logic to execute a custom instruction set. Deepens understanding of low-level computing and digital circuit design.

RELAYFLOW | TYPESCRIPT, REACT, NEXT.JS *Capstone Curriculum*
Developing a unified messaging platform (SMS/RCS) to accelerate mastery of the modern React ecosystem. Implementing strict TypeScript static typing, normalized state management, and OpenAI integration to simulate enterprise-grade telecom workflows prior to internship start.

LANGUAGES

English, French, Spanish — Trilingual Proficiency (Native/Bilingual)