

Summary

Eager Computer Engineering student specializing in computer architecture and software engineering, with hands-on experience in hardware, software, and networking technologies.

Education

University of Ottawa, Bachelor of Applied Science in **Computer Engineering** (CO-OP)

Ottawa, ON

- GPA: C+ (Transcript [📄](#))

Sept. 2019 to Dec. 2024

- **Relevant Coursework:** Computer Architecture II, Digital Systems II, Computer Systems Design, Data Communications and Networking, Real-Time Systems Design, Operating Systems, Advanced Programming Concepts With **C++**.

Experience

Canada Revenue Agency, Software Engineer

Ottawa, ON

- Selected as one of 2 international students for the 8-month DevLabs training program, aimed at learning cutting-edge technologies, such as **Azure Cloud**, **Machine Learning**, **Deep Learning**, **Natural Language Processing**, etc.
- Built a **Spring** web app for testing the CI pipeline, automating its deployment using **Jenkins**, **Maven** & **JBake**.
- Created numerous comprehensive documentations, presenting work and findings to the team, through workshops.

Sept. 2023 to Apr. 2024
8 months

RenterII, Software Developer

Winnipeg, MB

- Developed a web admin portal for managing a mobile app, with 1000+ downloads, by streamlining data access and visualization.

May 2023 to Aug. 2023
4 months

University of Ottawa, Software Engineer

Ottawa, ON

- Led the frontend development of the Coop Mobile app, achieving +1000 downloads, by enhancing **UI/UX design** to simplify the job application process.
- Spearheaded the IndEX web app's deployment, revamping 80% of the site and achieving a 50% increase in user engagement.
- Directed a 3-person QA team and managed interviews for 5 prospective candidates.

Jan. 2023 to Apr. 2023
4 months

University of Ottawa, Full Stack Web Developer

Ottawa, ON

- Worked closely with clients and student developers in all stages of the software development lifecycle to develop a student services **PHP** web application.
- Led the database server upgrade analysis, ensuring compatibility, data integrity, and backup effectiveness.
- Provisioned development and QA servers and gained knowledge of **Bash** (shell scripting), **Vagrant**, **GitLab** CI, infrastructure, and virtualization

Sept. 2021 to Dec. 2022
1 year 4 months

Projects

Machine Learning Experiments | [🔗](#) | **Python** (Numpy, Pandas, scikit-learn, etc.)

- Conducted various supervised and unsupervised learning experiments, achieving +90% accuracy, by processing data, optimizing models and using Azure's AutoML tool.

Similarity Image Search Engines | [🔗](#) | **Java**, **Go**, **Prolog**, **Scheme**

- Achieved an A+ grade by developing variants of an image search engine across multiple programming languages, demonstrating adaptability in handling computer vision tasks.

Rental AI | [🔗](#) | **Next.js** (TypeScript), **Tailwind**, **Flask** (Python), **JupyterLab** (ML)

- Developed a rent price prediction web application, processing over 100 listings and achieving 80% accuracy, by integrating a machine learning RF model and external APIs.

Alarm System | | C, STM 32, FreeRTOS

- Developed an alarm system integrating a PIR motion detector, a buzzer, a Keypad and an LCD screen, using STM32 on a Nucleo F44RE board, leveraging FreeRTOS for task management and message queues.

CAPSTONE — KittyCoder | | Python, Raspberry Pi Pico, HTTP, Angular, Express

- Created an educational interactive web app for children, enabling them to use block code to instruct a robot in drawing shapes.

Tractor Simulation | | C++, Arduino, SolidWorks, prototyping

- Collaborated in a cross-functional team to create an interactive tractor simulation with Arduino and C++, incorporating 3D design, soldering, and laser cutting.


Research Papers


The Cultural Evolution of a Moral Character: The Mad Scientist, Y. Moumine

Apr. 2022


Article 

Additional Experience And Awards

uOttHack 6 |  | Developed an EV dashboard for map navigation using Android Studio, Jetpack Compose & Kotlin.

SCRUM Master |  | Secured PSM1 certification & led the software development for my 6-member Capstone project.

Microsoft Azure AI-900: Securing certification demonstrating fundamental AI concepts related to the development of software and services of Microsoft Azure to create AI solutions.

Top 8 finalists, the 2023e of the Entrepreneurship Concepts Competition |  | top 8 finalist among +100 applicants earning the opportunity to present my TA/RA matchmaking project before renowned tech industry judges.

Deferential Scholarship recipient: for taking french classes.

International Student Scholarship awardee: Admission Average of 91.75%.

Skills: ML, Python, Java, C/C++, JavaScript, Bash, VHDL, C#, SQL, PHP, etc. _____

References available upon request.