

Seif Boukerdenna

Montréal, QC ☎ 514-594-0117 ✉ elmez6472@gmail.com 🌐 github.com/SeifBoukerdenna

Summary

Software engineering student specializing in **machine learning, computer vision, and scalable systems**. Experienced in Python, C++, SQL, and modern frameworks. Delivered production-ready systems used by **10,000+ users** and optimized ML pipelines to achieve **+8% accuracy** and **¡200ms inference**. Strong foundation in algorithms, cloud computing, and collaborative software development.

Experience

Incoming Full-Stack AI Intern – SecureRx

Montréal, QC

Sept. 2025 – Dec. 2025

- Will integrate **OCR and detection models** into Django backend to automate compliance checks.
- Contribute to React dashboards and REST APIs improving data workflows.
- Optimize ML models in **PyTorch/TensorFlow** for accuracy and latency.

Mobile Developer Intern – Ora Medical

Montréal, QC

May 2024 – Aug. 2024

- Built a **React Native + cloud** app used by **40+ patients** and **5 therapists**, saving hours of manual work weekly.
- Implemented secure data sync pipelines ensuring HIPAA/GDPR compliance.

Full-Stack Developer – UTXSOCCER

Montréal, QC

2022

- Developed scheduling platform (**Node.js, React, Firebase**) serving **1,000+ players**.
- Automated logistics workflows, reducing administrative effort by **70%**.
- Collaborated in a small team to deliver MVP to production in 3 months.

QA Analyst Intern – IBM

Montréal, QC

2021

- Automated regression testing (**2 days → 6h**), accelerating release cycles.
- Built regex-based log analyzers detecting **95%+ recurring errors**.

Education

Polytechnique Montréal – B.Eng. in Software Engineering

2022–Present

Key coursework: *Algorithms and Data Structures, Machine Learning, Computer Vision, Cloud Computing*

(Expected Graduation: 2026)

Projects

AI Chat Platform (2024–2025) — full-stack system with **10,000+ visitors in 72h** and **2,500 concurrent users**.

- Built distributed app with **React, Node.js, WebSockets**.
- Deployed ML-driven conversational features with scalable backend.
- Designed infrastructure to support thousands of simultaneous sessions.

Real-Time Mobile Streaming & Event Detection (2024) — iOS screen mirroring + live inference.

- Developed iOS app (**Swift**) with **React/Node.js** backend.
- Created custom **YOLOv8 pipeline**: **92%+ accuracy**, **¡200ms latency**.
- Used in **100+ professional gaming sessions**.

Computer Vision – Impact de Montréal (2023) — people counting with **YOLO, PyTorch**, achieving **90%+ accuracy**, deployed in **200+ sessions**.

Skills

Languages: Python, C++, SQL, TypeScript, Rust

Frameworks: React, React Native, Node.js, Django, FastAPI

ML/AI: PyTorch, TensorFlow, YOLO, OpenCV, Scikit-Learn

Cloud/DevOps: Docker, Google Cloud, AWS, CI/CD (GitHub Actions)