

Seif Boukerdenna

Montréal, QC ☎ 514-594-0117 ✉ elmelz6472@gmail.com 🌐 github.com/SeifBoukerdenna

Summary

Full-stack engineer focused on **ML, computer vision, and scalable systems**. Built products adopted by **10k+ users**, handling **2,500+ concurrent sessions**. Experienced in deploying **React, Node.js, PyTorch, TensorFlow, Docker, GCP**. Proven ability to optimize models (**+8% accuracy**), ship **⚡200ms inference**, and lead teams to production delivery.

Experience

Full-Stack AI Intern – SecureRx

Montréal, QC

Sept. 2025 – Dec. 2025

- Integrated **OCR + detection models** into Django backend, automating **80% of compliance checks**.
- Built **React dashboards + REST APIs**, reducing workflow errors by **25%**.
- Optimized ML models (**PyTorch/TensorFlow**): accuracy **82%→90%**, latency **-30%**.

Mobile Developer Intern – Ora Medical

Montréal, QC

May 2024 – Aug. 2024

- Shipped **React Native + cloud** app used by **40+ patients** and **5 therapists**, saving **3h/week per therapist**.
- Designed secure sync pipelines ensuring HIPAA/GDPR compliance.

Full-Stack Developer – UTXSOCCER

Montréal, QC

2022

- Built scheduling platform (**Node.js, React, Firebase**) serving **1,000+ players**.
- Automated logistics, reducing admin workload by **70%**.
- **Led 3-person team**, shipping MVP to production in 3 months.

QA Analyst Intern – IBM

Montréal, QC

2021

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

Education

Polytechnique Montréal – B.Eng. in Software Engineering

2022–Present

Key coursework: *Machine Learning, Computer Vision, Advanced Algorithms, Cloud Computing*
(Expected Graduation: 2026)

Projects

AI Celebrity Chat (2024–2025) — viral platform (**ChatGPT, Play.ht, Solana**) with **10,000+ visitors in 72h** and **2,500 concurrent users**.

- Built full-stack app with **React, Node.js, WebSockets**.
- Designed custom **Rust smart contract** for Solana token integration.
- Scaled infra to handle **2.5k+ concurrent sessions**.

Repos: [Main App](#), [Rust Contract](#)

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

- iOS app (**Swift**) + **React/Node.js** backend.
- Custom **YOLOv8 pipeline**: **92%+ accuracy**, **⚡200ms latency**.
- Used by **pro players** in **100+ sessions**.

Repos: [CRCoach](#), [CRScreenClient](#), [YOLOv8 Pipeline](#)

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

Skills

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

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

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

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