Seif Boukerdenna

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Summary

Full-stack engineer specializing in **ML, computer vision, and cloud systems**. Built apps scaling to **2,500+ concurrent users**, adopted by **40+ patients**, and platforms serving **1,000+ players**. Experienced in production systems with **React, Node.js, PyTorch, TensorFlow, Docker, GCP**. Solved **300+ LeetCode problems**, preparing for Big Tech interviews.

Experience

Incoming Full-Stack AI Intern – SecureRx   Montréal, QC
Sept. 2025 – Dec. 2025
- Integrated **CV models** (OCR, detection) into Django, automating **80% of checks**.
- Built **React + REST APIs**, cutting workflow errors by **25%**.
- Improved **PyTorch/TensorFlow** models: accuracy **82% → 90%**, latency **-30%**.

Mobile Developer Intern – Ora Medical   Montréal, QC
May 2024 – Aug. 2024
- Built a **React Native + cloud** app, adopted by **40+ patients / 5 therapists**, reducing reporting time by **3h/week**.

Full-Stack Developer – UTXSOCCER   Montréal, QC
2022
- Built scheduling platform (**Node.js, React, Firebase**) for **100+ teams / 1,000+ players**.
- Automated workflows, cutting admin workload by **70%**; **led 3-person team**.

QA Analyst Intern – IBM   Montréal, QC
2021
- Automated regression testing (**2 days → 6h**) and built REGEX pipelines detecting **95%+ recurring log errors**.

Education

Polytechnique Montréal – B.Eng. in Software Engineering   2022–Present
Key coursework: *Machine Learning, Computer Vision, Advanced Algorithms, Cloud Computing*
(Expected Graduation: 2026)

Selected Projects

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

Real-Time Mobile Streaming & Event Detection (2024) – end-to-end system for **iOS screen mirroring + live inference**.
- iOS app in **Swift** (CRCoach) + **React/Node.js** backend (CRScreenClient).
- Custom **YOLOv8 pipeline: 92%+ accuracy, ¡200ms latency**.
- Used by **pro players** in **100+ sessions** for strategy analysis.
Repos: [CRCoach](#), [CRScreenClient](#), [YOLOv8 Pipeline](#)

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

Additional projects: [gps-one-tau](#), [cyberfolio](#), Aquamon (200+ accounts).
(Note: some APIs/features may be disabled to avoid hosting costs.)

Skills

Languages	Frameworks	AI/ML
Python, JS/TS, Go, Rust, SQL, C/C++	React, React Native, Next.js, Node.js, Django, FastAPI	PyTorch, TensorFlow, OpenCV, YOLO, Scikit-Learn

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