Anis Benabdallah

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Education

École Polytechnique de Montréal — Montreal, QC
Bachelor of Engineering in Software Engineering — *Aug. 2025 – May 2029*

- **Relevant Coursework**: Introduction to Programming (INF1007), Advanced Object-Oriented Programming (INF1015), Data Structures and Algorithms (INF2010), Discrete Mathematics (LOG1810)

Experience

Research Intern (UPIR Scholarship) — Sep. 2026 – Present
NeuroPoly, Polytechnique Montréal — *Montreal, QC*

- Contributed to the development and validation of **Slicer-CART**, a **medical imaging** data curation, segmentation and annotation tool, under the supervision of Julien Cohen-Adad.
- Recipient of Polytechnique Montréal's **Research Initiation Scholarship (UPIR)**.

Software Developer Intern — May 2026 – Aug. 2026
City of Montreal — *Montreal, QC*

- Shipped **7+ production features** for a civic participation platform used by city councillors and borough mayors, each taken from requirements gathering to deployment with **Next.js**, **TypeScript** and **Supabase**.
- Built a **RAG chatbot** over **11 hours** of borough council meeting transcripts that answers with timestamped sources, combining **semantic search** and keyword search with locally computed **embeddings**.
- Automated the **daily sync** of Montreal's public events, from address **geocoding** to removing past events, to keep the borough map up to date.

Software Developer Intern — Jan. 2026 – Aug. 2026
CHUM Research Centre (CRCHUM) — *Montreal, QC*

- Maintained and developed a **full-stack application** used by physicians and nurses to measure **patient mobility** instead of assessing it subjectively.
- Explored approaches to improve a **YOLO model** that counts steps from the signal of a patient-worn **accelerometer**, working closely with a geriatrician and a research team.
- Hardened the **data pipeline**, from the **Bluetooth** sensor to the **dashboard**, for reliable use in the hospital.

Leadership

Founder & Executive Director — Feb. 2026 – Present
Hack4Impact Polytechnique Montréal — *Montreal, QC*

- Founded and led Hack4Impact Polytechnique to build software for nonprofit organizations.
- Coordinated a **team of 18** developers, designers and product managers to build applications with direct social impact for partner organizations.

Projects

Réseau Canopée | *Full-stack Web Application (Next.js, SQL, Swift, Java)*

- Built a patrol-tracking and wildlife reporting app for an **environmental nonprofit** in Laval, where volunteers record **GPS** routes and send photo reports from the field, and admins review and export them to **CSV**.
- Deployed the **Next.js** app to **iOS** and **Android** with **Capacitor**, and wrote native **Swift** and **Java** code for background GPS and offline patrol tracking.
- Secured every table with **row-level security** and **role-based access** (volunteer, staff, admin), then added **tests** that fail if any table is left open.

Technical Skills

Languages: Python, SQL, Java, C#, TypeScript, PHP
Front-End & Frameworks: React.js, Next.js, Tailwind CSS
Back-End & Databases: Node.js, Flask, Spring Boot, PostgreSQL, MongoDB, Azure, AWS
AI/ML & Computer Vision: TensorFlow, PyTorch, OpenCV