

YASSINE CHAHDI

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Mathematics and computer science student, full-stack developer. I designed, shipped, and sold a piece of software end to end on my own, and I ship production features on a live app. I also work with AI (documents, guardrailed agents, computer vision), but what defines me is taking things all the way to production. Bilingual, French and English.

EDUCATION

University of Montreal

B.Sc. Mathematics & Computer Science, GPA: 4.2/4.3

Montreal, QC

Expected Apr. 2027

National Taiwan University

Computer Science and Information Engineering (Exchange)

Taipei, Taiwan

Feb. 2026 – Jun. 2026

EXPERIENCE

Software Engineer Intern

Jan. 2026 – Present

SalahScreen

Montreal, QC

- Ships features end to end, from design to production, and measures the effect: onboarding completion +23%, day-7 retention +12%, paid conversion +14%.
- Diagnosed and fixed production defects (state races, persistence), closing 15+ tickets and lifting the App Store rating from 4.3 to 4.6.

Research Software Engineer Intern

May 2025 – Aug. 2025

CIRST, UQAM

Montreal, QC

- Developed and deployed at a client site a full-stack application (Python back end, Angular/TypeScript front end) containerized with Docker, processing 3.24M records and still in use.
- Optimized a processing step from $O(n^2)$ to $O(n)$, cutting runtime from minutes to seconds.
- Diagnosed a quality problem by tracing 91% of 16,172 anomalies to 13 root causes, validated reliability with 500,000 randomized tests, and documented the APIs in Swagger/OpenAPI.

PROJECTS

ChessUnlock | *Swift, Node.js, Stripe, SQLite, Python, Bash*

Shipped, paid

- Designed, shipped, and sold a macOS app end to end on my own: product, engineering, Stripe payments with verified webhooks, offline-validated licenses, and a release pipeline automated into a single command.
- Built a pipeline curating 325K records from 4M+ rows, cutting build time 10x and optimizing queries to under 100ms over 923MB.

My Small Claims | *Python, React, TypeScript, PostgreSQL, Gemini*

1st place, \$4,000

- Automated form extraction and filling: decrypting secured PDFs (pikepdf) and auto-filling fields (pypdf) through a guided wizard.
- Separated a deterministic decision engine from the LLM, with guardrails preventing any output beyond the authorized scope, deployed on Vercel with PostgreSQL persistence.
- Won 1st place among 15 teams by scoping the need with non-technical stakeholders in a domain I did not know.

Rusty | *Python, PyTorch, PostgreSQL*

F1: 91.67%

- Automated industrial image analysis: corrosion detection via transfer learning from a steel-inspection model, with a reproducible collection, annotation, and training pipeline.

PUBLICATIONS

Soulas, T., Ferstler, Y., Tsilinchuk, V., **Chahdi, Y.**, Lavoie, C., Laperrière, G., & Meurs, M.-J. (2026).

Calame: An open source transcription software. *Proceedings of Machine Learning Research*, 318. 39th Canadian Conference on Artificial Intelligence.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Swift, SQL, C++, C, Java, Bash

Development: React, Angular, Node.js, FastAPI, REST APIs, PostgreSQL, Docker, Linux, Git, CI/CD, payments

Applied AI: guardrailed LLM agents, document processing, NLP, computer vision, PyTorch