

Charles-Andréa GRAVIER MORIN

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EXPERIENCE

STEALTH

Founding Engineer

- Computer vision, control systems and hardware for autonomous systems at a french Stealth startup.

Contract, Remote

Febr 2025 - June 2025

JANE STREET

Quantitative Trading Camp Participant

- Selected among top student candidates for Jane Street's Quantitative Trading Camp (QTC) in London, focusing on quantitative analysis, market strategies, and trading.

Internship, London

Apr 2025 - Apr 2025

SEA12 TECHNICAL SOLUTIONS

Project Manager

- Leading a team of 3 developers to build 3 applications, and a secured backend system to be used by Modern Waste Solutions, to manage all their operations and inventory, from truck arrival to accounting.

Contract, Remote

Nov 2024 - March 2025

Software Engineer

Sep 2024 - Nov 2024

- Developed an AI chatbot with sentiment analysis and RAG capabilities for Warehouse Exchange, leading to a 3x increase in volume. Fully built the backend system for monitoring, performance evaluation, and adaptive behavior.

Fullstack Developer

Jun 2024 - Sep 2024

- Developed 2 mobile apps, an admin website, and a secured backend system used by Warehouse Exchange, as well as a secure messaging system.

EDUCATION

EPFL (ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE)

Lausanne, Switzerland

Bachelor of Science, Computer Science

Sep 2023 - Jul 2026

- **Key Coursework (so far):** Analysis, abstract and linear algebra, discrete maths, software construction (functional programming), probability and statistics, machine learning, algorithms, computer architecture, computer systems, computer security, game theory, online decision making (reinforcement learning)
- **Academic Projects:** Collaborated with diverse teams on many projects, with industry-standard testing practices, and clean code principles (video games, image classifier, a few ML projects, cryptography / steganography, web and mobile apps, CPU design, C server, and more)

PERSONAL PROJECTS

- **EPFL Startup Launchpad Studio (Sep 2025 - Nov 2025):** Working on a research-driven project aiming to identify and predict corporate misconduct patterns using large-scale public data sources.
- **LauzHack 2025 (Lausanne, Nov 2025):** Built an anti-money-laundering AI system on UBS-like financial data, with entity-graph construction, anomaly detection, and real-time suspicious-activity scoring.
- **HackMIT 2025 (Boston, Sep 2025):** Designed a multi-agent RL simulation of a stochastic power grid (producers, consumers, batteries) on IEEE network topologies, implementing PPO-based training pipelines.
- **Entrepreneur First's EBL (Milan, Mar 2025):** Built an AI Secretary Agent that automates bookings via WhatsApp, using an integrated voice agent to call places and manage reservations.
- **iOS App Store (2023 - Present):** Created and published three educational iOS apps with thousands of active users, to enhance users' mental maths and memory skills.

TECHNICAL SKILLS

- **Programming Languages:** Python, OCaml, C++, Java, Scala, SQL, Assembly, Verilog HDL, JS/TS, Swift, LaTeX
- **Numerical & ML Tools:** NumPy, pandas, SciPy, scikit-learn, PyTorch, Matplotlib, Seaborn
- **Software Engineering:** Git, GitHub, Make, FastAPI, Flask, Firebase, Supabase, Docker
- **Systems & Performance:** Low-level programming, Parallelism and Concurrency
- **Functional Programming:** OCaml, Scala
- **(Less relevant) Frontend / Mobile Development:** React, Next.js, Tailwind CSS, React Native, SwiftUI

ADDITIONAL INFORMATION

- **Achievements:** All-time school record at the Algorea National Contest (2023); top 0.1% on france-ioi.org (Level 4)
- **Languages:** French (native), English (bilingual), German (beginner), Arabic (beginner)
- **Volunteering:** Mathematics tutor for high school students (2022), environment club member (2019-2022)
- **Interests:** Tennis, climbing, running, chess, reading, traveling, politics, enjoying time with family (dog included)