Charles-Andréa GRAVIER MORIN

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SUMMARY

Analytical and driven Computer Science student with strong quantitative skills, international background (Paris, Geneva, Dubai), and a proven record of applying algorithmic thinking and statistical analysis to real-world problems. Passionate about markets, probability, and optimization. My experience spans across software engineering, AI, and financial modeling. Eager to learn data-driven decision-making in high-stakes trading environments.

EXPERIENCE

STEALTH **Contract, Remote**
Founding Engineer *Febr 2025 - June 2025*
- Computer vision, control systems and hardware for autonomous systems at a french deftech Stealth startup.

JANE STREET **Internship, London**
Quantitative Trading Camp Participant *Apr 2025 - Apr 2025*
- Selected among top student candidates for Jane Street's Quantitative Trading Camp (QTC) in London, focusing on quantitative analysis, market strategies, and trading.

SEA12 TECHNICAL SOLUTIONS **Contract, Remote**
Project Manager *Nov 2024 - March 2025*
- 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.

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.

TECHNICAL SKILLS

- **Mathematics :** Probability Theory, Statistics, Optimization, Combinatorics, Linear Algebra, Time Series Analysis
- **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
- **Machine Learning :** Transformers, Reinforcement Learning, Deep Learning
- **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

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.
- **Academic Projects:** Collaborated with diverse teams on many projects, emphasizing industry-standard testing practices, comprehensive documentation, and clean code principles.

ADDITIONAL INFORMATION

- **Achievements:** All-time school record at the Algorea National Contest (2023); top 0.1% on france-ioi.org (Level 4)
- **iOS App Store:** Developed 3 Edtech iOS apps with thousands of users to improve mental maths and memory skills.
- **Hackathons:** Participated to EF's EBL in Milan (Mar 2025) - built an AI Agent Secretary - HackMIT (in September)
- **Languages:** French (native), English (bilingual), German (beginner), Arabic (beginner)
- **Volunteering:** Mathematics tutor for high school students (2022), environement club member (2019-2022)
- **Interests:** Tennis, climbing, running, chess, reading, traveling, politics, enjoying time with family (dog included)