ARTHUR HOTTIER

+33 (0)6 42 49 65 92 ⋄ arthur.hottier@telecom-paris.fr

https://www.linkedin.com/in/arthurhottier/

As a second-year M.Sc. Engineering student at Télécom Paris, I am eager to leverage my expertise in applied mathematics, data analysis, and algorithmic trading. I am seeking a six-month internship abroad beginning January 2026.

EDUCATION

Master of Science in Engineering *September 2023 - Present*
Télécom Paris, co-founder of Institut Polytechnique de Paris (France)
Mathematics, Computer Science, Finance

Majors:
- **Random Process and Scientific Computing:** Studied conditional distributions, martingales and Markov chains to model financial markets. Applications include Brownian motion and Poisson processes for pricing derivatives and modeling asset dynamics.
- **Data Science & AI:** Proficiency in advanced statistical mathematics and programming by coding AI and machine learning algorithms (e.g., regression, clustering, neural networks).

Minors:
- **Corporate Finance & Business Economics**: Developed business-plan creation skills on Excel and gained a comprehensive understanding of corporate finance principles.

Preparatory Classes for Grandes Ecoles *September 2021 - June 2023*
Lycée du Parc, Lyon (France)
Mathematics, Physics and Engineering (MPSI/PSI)

EXPERIENCES

COO (Chief Operating Officer), Télécom Business & Finance (TBF) *June 2025 – Present*
Student association experience: https://github.com/telecom-business-finance (public repository)

- I intend to organize a series of over 10 trading workshops for Télécom students, each based on a concise LaTeX scientific paper I've authored on topics such as technical analysis and portfolio optimization.
- I plan to leverage the broker platform I developed to provide detailed Jupyter notebooks in Pyton alongside each paper, allowing around 20 students per session to implement, test, and build on algorithmic trading strategies.

Coding a Trading Bot *January 2024 - June 2025*
Personal project: https://github.com/ArthurHtr (private repository)

- Developed an advanced broker backtesting engine to simulate trade execution (long/short, leverage, fees) for validating technical-analysis signals; full order-book microstructure modeling is maintained as a separate ongoing side project.
- Designed and implemented a custom trading strategy optimized for a 5-minute timeframe, leveraging technical analysis and decision algorithms such as decision trees and neural networks.

Candidate for the position of Treasurer of the Student's Bureau *March 2024*
Personal Experience

- Led a challenging 1-month campaign in a competitive environment, managing a team of 15 students to win the Student's Bureau election.
- Drew up a provisional budget in collaboration with 50+ student clubs and associations, requiring extensive analytical and communication skills to balance diverse needs and priorities.

INTERNSHIP

Personal Skills Internship *July - August 2024*
Lifeguard at a Pierre & Vacances Holiday Village, France
- Ensured the safety, security and orderliness in the 3 pools alongside being a First Aider on call.

LANGUAGES

- **French:** Native.
- **English:** C1 (TOEIC 900/990), plus a 3-week immersion program in Malta in 2019, LinguaSkill 180+

SKILLS

Licences	Driving licence (& car), CPR and First Aid, Lifeguard, Coastal Boat Permit, Open Water diver
Sports	Competitive Swimming for over 15 years, Strength Training
Technical skills	Python, C++, SQL, GitHub, Pack Office, SolidWorks, JavaScript, HTML & CSS, PHP, LaTeX