Elyas Assili

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Applied Mathematics and Computer Science Engineer, pursuing a second degree in Quantitative, Risk and Financial Mathematics. I have gained diverse professional experiences in France and internationally, working with global leaders, research laboratories, and SMEs. As a future graduate in 2026, I am seeking an opportunity.

Education

Panthéon Sorbonne — Sept 2025
Master's degree in Risk Engineering: Finance and Insurance (M2) — *Paris, FRANCE*
- Major in Engineering of Financial Mathematics

Polytech Sorbonne - École Polytechnique Universitaire de Sorbonne Université — Sept 2021 – Nov 2024
5-year-degree in Engineering School — *Paris, FRANCE*
- Major in Applied Mathematics and Computer Science

École de Technologie Supérieure — Sept 2023 – Dec 2023
Study Abroad Program — *Montréal, CANADA*
- Major in Artificial Intelligence

Experience

HSBC - Apprenticeship — Sept 2025 — *Paris, FRANCE*
- Enhanced forward-looking analysis tools (asset allocation, strategic planning, ORSA) using Python and VBA.
- Contributed to the development and improvement of economic scenario generators.
- Performed statistical and economic analysis of input/output data from the ALM model.
- Participated in impact assessments under Solvency II and accounting standards.

Thales - Intern — Jan 2024 – July 2024 — *Paris, FRANCE*
- Developed a data decoding and analysis tool to process and interpret large-scale system information with Lua and C.
- Designed an interactive mapping system for data visualization and anomaly tracking with Python.

Kyoto University, Mathematics Laboratory - Intern — June 2023 – Aug 2023 — *Kyoto, JAPAN*
- Built mathematical and computational tools for stochastic modeling and numerical optimization.
- Applied quantitative finance methods (Monte Carlo simulations, stochastic processes, model calibration).
- Conducted advanced statistical analysis and automated complex simulations using C++, Python and MATLAB.
- Created an original system of mathematical equations for modeling and analysis.
- Delivered training sessions for multidisciplinary international experts.

Snap Inc. (Snapchat) - Industrial Project — Sept 2022 – May 2023 — *Remote*
- Designed and implemented advanced artificial intelligence and data science solutions to support strategic decision-making.
- Developed and optimized machine learning and deep learning models for predictive analytics and pattern detection.
- Built end-to-end data pipelines, including preprocessing, feature engineering, and model evaluation.
- Applied statistical and computational methods to extract insights from large and complex datasets.
- Utilized a wide range of AI and data science tools and frameworks within an international MLOps environment.

Nomadvantage - Intern — June 2022 – Aug 2022 — *Paris, FRANCE*
- Managed and integrated complex client and product datasets, ensuring data consistency and reliability.
- Developed automated data pipelines for ETL processes, data cleaning, and transformation.
- Applied mathematical and statistical methods to analyze datasets, identify trends, and generate actionable insights.

Leadership and Awards

- Engaged in student associations Enactus, Polytech Without Borders, and SOphIA.
- Participated in a hackathon on Artificial Intelligence and Musical Improvisation and won the first prize.
- Selected among 1,400 high school students to participate in the ERASMUS+ program in Poland.

Languages

French: Native
English: Fluent
Arabic: Conversational
Spanish: Conversational
Japanese: Notions

Technical Skills

Python, R, C, C++, C#, MATLAB, Java, VBA, SQL, SAS, ERP, PostgreSQL, Power BI, Artificial Intelligence tools, LaTeX, Microsoft Office, Excel, PowerPoint, Git, Talend, Jira, Linux, Windows, macOS

Soft Skills

Analytical Thinking, Results-driven, Ability to Work Under Pressure, Team-player, Ability to Simplify Complex Ideas, Commitment to Excellence