

Reda Salhi

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Available to start : July 2025

Education

- École Centrale Méditerranée, MSc in Financial Engineering – Marseille, France 2023 – Present
- **Relevant coursework:** Probability and Statistics, Stochastic Processes, Numerical Analysis, Portfolio Theory, Python
- Queen's University Belfast, Exchange Semester – Belfast, United Kingdom 2025
- **Relevant coursework:** Financial Modelling in Python, Derivatives, Stochastic Processes for Finance
- Derivatives Programme, Technical Finance Training – Belfast, United Kingdom 2025
- **Topics covered:** Futures/Forwards, Options, Swaps, Commodities, Fixed Income, Quantitative Methods, Greeks, Volatility (Implied, Realized, Smile, Skew), Option Strategies, Structured Products, Exotic Derivatives, Delta Hedging, Stochastic Volatility Models (SABR, Heston), Securitization
- Lycée Blaise Pascal, CPGE MPSI-MP* (Selective Preparatory Classes) – Clermont-Ferrand, France 2021 – 2023
- **Main subjects:** Mathematics, Physics, Python, SQL, Chemistry, English, Philosophy

Work Experience

- Queen's Business School, Quantitative Researcher – Belfast, United Kingdom February 2025 – Present
- Conducted a systemic risk calculation and analysis of the 28 Global Systemically Important Banks (G-SIBs) using Extreme Value Theory (EVT) to assess tail risk exposure, implemented in Python.
- OCP Group, Business Analyst Intern – Safi, Morocco July 2024 – August 2024
- Applied corporate finance principles and DCF valuation methods to support strategic decision-making on capital investments.
 - Assessed investment opportunities by analyzing maintenance budgets to maximize asset profitability.
- Aix-Marseille School of Economics, Research Assistant – Marseille, France December 2023 – January 2025
- Designed empirical studies and conducted large-scale data collection and analysis in behavioral economics to evaluate urban distribution patterns across countries.

Projects

- CAPM Regression Analysis: Goldman Sachs vs S&P 500 in Python 2024
- Implemented a CAPM regression model in Python to estimate the beta and alpha of Goldman Sachs stock relative to the S&P 500.
- Value at Risk (VaR) Estimation in Python 2023
- Computed historical, parametric, and Monte Carlo VaR on the S&P 500, fixed income instruments, and a diversified portfolio.
 - Performed asset-level risk contribution analysis and visualized tail risk distributions.
- Demo : Derivatives Pricing Web App in Python and Streamlit Project Link
- Built an interactive web app to price vanilla derivatives using Python and Streamlit.
 - Integrated multiple pricing models: Black-Scholes, Binomial Tree, Hull-White, Heston, and Monte Carlo simulation.
 - Ongoing: Implementation of Greeks computation and support for additional financial products.
- Interactive Portfolio Optimizer in Python and Gradio Project Link
- Built a portfolio simulation app based on Modern Portfolio Theory to visualize the efficient frontier and the optimal risky portfolio.
 - Supports capital allocation with a risk-free asset and CAPM beta regression against the market (S&P 500 or optimal portfolio).

Languages and Technical Skills

Languages: English (fluent), French (native), Arabic (native), Italian (beginner)

Technical Skills: Python, VBA, MATLAB, SQL, Bloomberg (basic), S&P Capital IQ, Excel, PowerPoint, GitHub

Certifications

- Bloomberg Finance Fundamentals – Bloomberg
- Bloomberg Market Concepts – Bloomberg
- HSBC Global Markets Job Simulation – Forage