

ZAKARIA EL YASSINI

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PROFILE

Motivated Graduate student in Mathematical and Computational Finance with expertise in quantitative methods and financial analysis and a passion for research. Proficient in Python, R, and Power BI, leveraging programming to develop innovative solutions for investment strategies and risk assessment.

SKILLS

- Programming Languages
 - Python | Expert
 - R | Advanced
 - C++ | Beginner
- Excel Proficiency
- Power BI
- Statistical and Quantitative Research and Analysis
- Financial and Mathematical Modeling
- Critical and innovative thinking
- Team collaboration and Leadership

LANGUAGES

- English | Native
- French | Native
- Arabic | Native

EXPERIENCE

Financial Performance Analyst Intern

May 2024 – Dec 2024

IPEX Inc – Verdun, QC

- Developed advanced Power BI tools to monitor and analyze the performance of a portfolio of 5 companies, enhancing decision-making capabilities
- Applied mathematical models, including time series analysis with a 95% confidence interval, to predict performance trends, enhancing budgeting and forecasting accuracy
- Created an innovative Python-based PVM analysis tool that automated performance metrics selection, saving over 20 hours monthly and enabling on-demand access to key data without manual intervention

Event Greeting Agent

May 2023 – Oct 2023

Piknic Electronik — Montreal, QC

- Coordinated entry for 10,000 festival attendees, managing inflow and outflow seamlessly while thriving under pressure and optimizing event logistics

Analyst intern

Jan 2023 – May 2023

Bombardier Inc – Dorval, QC

- Developed advanced tools and reports for governance and budget management, enhancing data gathering and analysis processes, resulting in 100%-time savings through automation
- Demonstrated proficiency in Power BI, Power Automate, Power Apps, and Excel to deliver insightful financial analysis, leading to a 75% improvement in identifying key risks and opportunities and enhancing reporting accuracy
- Managed multiple high-priority projects with varying deadlines, improving project delivery by 50% by the end of my internship

First Year Representative

Sep 2020 – Sep 2021

MASSA – Montreal, QC

- Coordinated with 4-people team to organize and host campus events, enhancing student engagement by bringing in industry speakers to discuss topics such as Brownian motion and stochastic calculus in finance.

EDUCATION

MA MSc Mathematical Finance and statistics

Jan 2025 – May 2027

Concordia University – Montreal, QC

- Official start date of my graduate studies set to be January 2025

Bachelor of Science BSc

Sep 2020–Dec 2024

Concordia University – Montreal, QC

Mathematical and Computational Finance Discipline.

- *Dean's List: 2020-2021 academic year*
- *Relevant Coursework: Time series analysis, Derivative pricing, Black-Scholes, stochastic calculus, advanced statistics & probability, Asset Management, Hedging, Derivative Pricing, Swaps and caps, Monte-Carlo Simulations, Continuous time finance.*
- CGPA: 3.54/4.30

Moroccan Baccalaureate in Science

Sep 2020

Madariss Maria High School – Temara, Morocco

- *Distinction: Very Good*

HONORS AND AWARDS

- *Tom Labelle Bursary in Mathematics*
- *Bronze Honour in IYMC (International Youth Math Challenge)*
- *Bronze Honour in IAAC (International Astronomy and Astrophysics Competition)*

CERTIFICATIONS AND PROJECTS

Machine Learning for Trading

Oct 2024

New York Institute of Finance

- *Completed the "Machine Learning for Trading" course at the New York Institute of Finance, specializing in the application of neural networks to enhance trading strategies and optimize financial decision-making.*

Monte- Carlo methods in Finance

Oct 2024

Personal Project - GitHub

- *Built and refined Monte Carlo models to price European and Asian options, incorporating variance reduction techniques.*
- *Implemented variance reduction strategies, resulting in significant efficiency improvements, such as a 47968% increase using control variates.*
- *Technologies: Python (NumPy, SciPy, Matplotlib), Pandas*

Volatility Surface Calibration

Sep 2024

Personal Project - GitHub

- *Developed and implemented algorithms to calibrate implied volatilities from market data, utilizing advanced programming techniques and mathematical models.*
- *Successfully improved the accuracy of volatility surfaces, aiding in precise pricing of options across different strike prices and maturities.*

Investment Analysis and Assets Management with Python

Aug 2024

- *Conducted comprehensive investment analysis and asset management using Python, focusing on data-driven decision-making and portfolio optimization techniques*

HOBBIES

- *Jewellery Design and making*
- *Coding*
- *Reading novels*
- *Hiking*