Mohamad El Habbal

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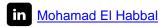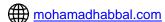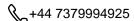
EDUCATION

University College London – *BSc Computer Science*   *Oct 2023 – Jun 2026 (exp.)*
Modules: Engineering Mathematics in Finance, Discrete Mathematics, Algorithms, Logic, OOP.

Ashbourne College – *A Levels*   *Sep 2021 – Jul 2023*
- Achieved A* A* A A grades in Maths (1 year early), Computer Science, Further Maths, Physics.
- Honour Roll recipient, scholarship awardee, and active member of the student council.

WORK EXPERIENCE

AmplifyMe Finance Accelerator – *Investment Banking & Asset Management*   *Feb 2024*
in Partnership with Morgan Stanley & UBS
- Ranked 6th out of 100 Participants in a highly competitive finance accelerator.
- Generated a 6.3% ROI on a $20M fund in the Investment Banking simulation by strategically diversifying asset allocations in response to live market events.
- Facilitated 11 high-volume trades in the Sales Trading simulation while achieving a commission of $129K in 30 minutes by optimising risk exposure through quick position unwinding.

Capgemini Intern – *Data Team Internship*   *Jul 2022*
- Collaborated with the Data Visualisation team to transform technical requirements into actionable insights.
- Designed and presented 3 interactive Tableau dashboards, including a Choropleth map and a sales performance bar chart for stakeholders.
- Tackled challenges such as handling unclean data by implementing robust data cleaning techniques such as type conversion and normalisation, reducing errors by 40%.

Sales Funnel Optimisation – *E-commerce Founder & Entrepreneur*   *Summer 2020*
- Utilised data and analytics to optimise the sales funnel and improve customer acquisition strategies.
- Founded and developed an e-commerce business generating over £3,000 in revenue within 3 months, while managing all aspects including technology, UX/UI, sales, marketing, and customer satisfaction.
- Encountered challenges in scaling customer acquisition due to a limited budget and segmentation; resolved by leveraging organic social media growth strategies.

PROJECTS

Algorithmic Trading Strategy – *Leveraged ETF Trading*   *Jul 2024 - Present*
- Developed a systematic asset-switching strategy focused on long-term holding of Leveraged ETFs, while mitigating volatility decay.
- Created an algorithm capitalising on high-volatility to capture alpha during periods of market turbulence.
- Achieved a CAGR of 63% and an annual Sharpe ratio of 1.11, based on a 20-year backtest.
- Authored articles on volatility decay in Leveraged ETFs and volatility index ETFs.
- Encountered difficulties in sourcing pre-2010 data due to the inception date of leveraged ETFs, requiring simulated historical data for earlier years to maintain backtesting continuity.

NLP Transcription Automation – *FHIR Hackathon Team Project*   *Mar 2024 - Apr 2024*
- Developed an auto-transcription application for audio of patient-doctor appointments using Python's SpeechRecognition library, reducing manual data entry time by 75%.
- Faced difficulties in distinguishing between patient and doctor dialogue. Solved by implementing NLP algorithms that differentiate between speech patterns, improving transcription accuracy by 85%.

Financial Insights & Risk Analysis Platform – *Personal Wealth Optimisation*   *Sep 2023 - Oct 2023*
- Engineered a comprehensive personal wealth analytics platform to track portfolio allocation, cash flow management, and net worth growth.
- Generating interactive, multi-dimensional dashboards with advanced data visualisations to deliver real-time insights into asset performance, spending patterns, and risk exposure.
- Automated expense categorisation and analysis, providing granular insights into discretionary vs. non-discretionary spending, aiding in financial optimisation.

AI Voice Assistant – *A level Coursework*   *Aug 2022 - Dec 2022*
- Created an Python AI voice assistant with a GUI, capable of automating tasks such as application management, dynamic web searches, and executing knowledge-based queries via the Wolfram Alpha API

Yearbook Team Leader – *Ashbourne College Student Council*   *Sep 2022 - Jun 2023*
- Led a team of 5 in the design and production of a 100-page yearbook, applying project management skills to meet a 1-month deadline.

ADDITIONAL INFORMATION

Technical Skills – Python, Java, C/C++, JavaScript, Git, HTML/CSS, Advanced Excel, VBA, Bloomberg Terminal
Languages – English (Native), Arabic (Native)
Interests – Football, Custom Watchmaking, Personal Finance, Real Estate Investments