

Mohammad Eissa

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EDUCATION

Bachelor of Science, Major in Data Science

Worcester Polytechnic Institute, Worcester, MA GPA: 3.7

Expected May 2027

TECHNICAL SKILLS

Analytical Skills: Financial modeling, time-series forecasting, earnings & scenario analysis, sensitivity analysis,

Technical Skills: Python (NumPy, Pandas, SciPy, statsmodels), SQL, C++, Power BI, Git, Microsoft Office

Certifications & Simulations: BMC, Goldman Sachs Risk Simulation, JPMorgan Quantitative Research Simulation.

WORK EXPERIENCE:

Risk Management Intern — EFG Holding, Cairo, Egypt

July 2025

- Built a real-time SME credit-evaluation model, cutting underwriting time from hours to seconds.
- Engineered liquidity, stability, volatility, and behavioral features, boosting predictive precision by 20%.
- Developed logic to extract and normalize unstructured transaction data for scalable digital credit-risk evaluation.

Quantitative Research Analyst & Product Lead — List4Free LLC

Sept 2025-Present

- Designed a patent-track quantitative valuation framework converting UK EPC surplus energy efficiency into monetizable carbon-linked assets for homeowners.
- Led product definition and backend model architecture, translating regulatory constraints (UK ETS, EPC methodology) into scalable pricing logic.
- Partnered with List4Free leadership as a shareholder, contributing to IP development, commercialization strategy, and investor-facing model validation.
- Built analytical pipelines aligning EPC distributions, carbon pricing signals, and valuation sensitivities relevant to green finance and structured products.

Amazon Fulfillment Center People Analytics Externship — Remote

Nov 2025-Jan 2026

- Applied NLP and sentiment-scoring methods to unstructured labor-market data to quantify drivers of turnover, productivity variance, and operational inefficiencies.
 - Built Python-based feature extraction pipelines to map qualitative feedback to measurable performance indicators relevant to cost, staffing, and capacity planning.
 - Delivered actionable findings to Amazon leadership, demonstrating strong analytical rigor, communication clarity, and ability to interpret noisy real-world data.
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RESEARCH PROJECTS

Computer Vision Researcher — Prof. Wei Xiao (Mentor), WPI

Sep 2025 - Present

- Building a computer-vision motion-analysis algorithm that estimates a swimmer's velocity, stroke rate, and efficiency metrics from underwater footage to support quantitative performance evaluation.
- Implementing OpenCV-based pipelines for lane-line detection, body-segmentation heuristics, and temporal tracking to extract consistent kinematic signals across frames.

Quantitative Modeling Researcher — Prof. Adam Powell

Nov 2025 - Present

- Developing an AI-driven electricity price forecasting model incorporating NVIDIA FourCastNet3 outputs, ISO market APIs, and additional factors to project prices up to three months ahead.
- Translated price forecasts into a threshold-aware operating control system for a metal factory, using edge-case logic to optimize run/idle decisions and avoid inefficient stop-start behavior.

Social Neuroscience Research Assistant — SNAP Lab

Jan 2026 - Present

- Analyzing EEG data from a neuroscience study examining neural effects of social media exposure.