

# Mohammad Eissa

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Analytical and collaborative team player with experience in multiple programming languages and data-driven problem solving. Seeking an internship that applies quantitative, technical, and strategic skills to real-world business challenges.

## EDUCATION

### Bachelor of Science, Major in Data Science and Computer Science (transfer)

University of Indianapolis, GPA: 3.65

Fall 2023 - Spring 2025

### Bachelor of Science, Major in Data Science

Worcester Polytechnic Institute, Worcester, MA

Expected May 2027

### Relevant Coursework:

Object-Oriented Programming

Data Structures and Algorithms

Probability and Statistics

Linear Algebra

Macroeconomics

Financial Accounting

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL

**Libraries/Tools:** Pandas, Scikit-learn, TensorFlow, Tableau, Git, Cursor

**Areas:** Data Analysis, Machine Learning, Computer Vision, Prompt Engineering

**Certifications:** Google Cybersecurity Professional Certificate, IBM Databases & SQL for Data Science with Python

## WORK EXPERIENCE:

### Risk Management Intern

EFG Holding, Cairo, Egypt

July 2025

- Built a real-time SME credit model in Excel, automating financial and behavioral analysis and cutting evaluation time to near-instant.
- Added new credit dimensions—liquidity, revenue stability, and expense behavior—to improve scoring accuracy and reflect overall business health.
- Developed algorithms to extract and normalize insights from unstructured SME data, enhancing model robustness in data-scarce markets.
- Prototyped a scalable fintech credit framework supporting EFG Hermes's digital transformation and SME-financing initiatives.

### Video Crew For Musical Concerts

University of Indianapolis

Sept 2024-May 2025

- Set up and operated multi-camera video equipment for live concerts, switching shots in real time.
- Handled post-production, including editing and uploading final concert footage.

## **RESEARCH PROJECTS:**

**Researcher - Professor Michael Radzicki and List4Free**

**Worcester Polytechnic Institute**

**September 2025 - Present**

- Leading development of a patent-ready algorithm enabling UK homeowners to monetize surplus EPC ratings via green-bond markets.
- Applying data science, economics, and systems modeling to assess the environmental and financial impact of green real-estate investments.

**Researcher - Professor Wei Xiao (Mentor)**

**Worcester Polytechnic Institute**

**September 2025 - Present**

- Designing a computer vision algorithm to extract core swimming performance metrics.
  - Implementing AI-based motion analysis on underwater footage for performance tracking.
  - Developing into a commercial sports-tech venture combining AI and biomechanics
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## **PROJECTS**

**Strategic ROI Analysis for Marketing Campaigns (C++)**

- Analyzed campaign data to evaluate ROI and conversion rates across marketing channels.
- Visualized performance by customer segment and recommended optimized budget allocations.

**Post-Apocalyptic Board Game (C++)**

- Developed a grid-based 2-player survival game using object-oriented programming.
- Implemented custom Linked List, Stack, Queue, and Array structures for turn logic, inventory, and resource management.

**Leontief Input-Output Model (Python and Linear Algebra)**

- Built an economic model simulating inter-industry dependencies using matrix algebra.
  - Analyzed how demand shocks affect production output and applied linear algebra to real-world forecasting.
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## **LEADERSHIP AND ATHLETICS**

**Varsity Swimming, University of Indianapolis**

**2023 – 2025**

- GLVC conference winner 2024

**Varsity Swimming, Worcester Polytechnic Institute**

**2025 – Present**

**Club Swim Team, Heliopolis Sporting Club**

**2016 – 2023**

- 12x Nationals medalist
- 22x Regionals medalist
- 1 National Record held