Dina Magdy Tolba

✉ d.tolba@nu.edu.eg | 📞 01096937948 | Giza, Egypt

🔗 LinkedIn: www.linkedin.com/in/dinamagdyy

Summary

Computer Science graduate with a growing focus on data science, and hands-on experience in analytics, machine learning, and automation. Familiar with Linux and virtualization, and eager to apply analytical skills across data-driven roles.

Working Experience

Cloud & Virtualization Intern – Central Bank of Egypt (May 2025 – Present)
- Gaining hands-on experience in Red Hat Linux administration, virtualization (VMs, hypervisors, VDI), and and gaining practical exposure to cloud platforms (AWS, Azure).

Fintech Intern – Central Bank of Egypt (Feb 2025 – Apr 2025)
- Contributed to Egypt's Fintech Landscape Report and supported evaluation of applications for the CBE Regulatory Sandbox, enabling safe testing of innovative FinTech solutions.
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Full-time Data Analyst – NilePreneurs (Jul 2024 – Feb 2025)
- Managed internal data systems with Coda.io and automated team operations using UiPath; built low-code tools with Adalo.io to streamline workflows.
- Built a Python-based predictive model to forecast course seat demand at Nile University, reducing manual planning across semesters.

Junior Teaching Assistant – Nile University (Fall 2021 – Spring 2022)
- Supported lab sessions and guided ~60 students in in three core courses: Logic Design, Intro to Computer Systems, and Theory of Computing by clarifying concepts and assisting with projects.

Machine Learning Intern – ELPO Company (Jul 2023- Aug 2023)
- Built a **real-time sign language interpretation system** using LSTM models applied to live image input.
- Developed a **speech-to-image pipeline** combining transformers and LSTM to convert audio to text and retrieve relevant images.

Graduation Project – Automated Advising System

Built an intelligent system using **Knowledge Graphs (Neo4j)** and Genetic Algorithms to automate and personalize course advising.
Awarded 1st Place at Nile University's Graduation Project Evaluation (2023/2024).

Achievements & Awards

- **Dean's Honor List** – Recognized for academic excellence in Spring 2021, Fall 2022 and Spring 2023 by the Dean of Information Technology and Computer Science, Nile University.
- **1st Place** – Linear Algebra Project, UGRF 15: Built a Hill Cipher system for text encryption and decryption.
- **2nd Place** – Logic Design Project, UGRF 13: Designed a digital safe box circuit that locks after 3 failed attempts.
- **2nd Place** – Python Game Project, UGRF 12: Developed a gift-collection game with scoring and limited attempts.

Extracurricular Activities

- **Chairwoman**, WIE (Women in Engineering), IEEE Club – Nile University (2024)
- **President**, Nutshell NU Club (2023)
- **Head of Logistics**, TEDx Nile University (2022)
- **Hosted**, League of Champions Event – Nile University (2022)
- **Participated** in the ICPC problem-solving contest. (2021–2022)
- **Member**, Social & Press Committees – Nile International MUN (2020–2021)

Education

Bachelor of Computer Science (Big Data Track)
Nile University – Graduated 2024 | **GPA:** 3.72/4.00 | **Honors:** High Honors

Certified Courses

- **IBM Digital Egypt Pioneers (DEPI) – Data Science Program** (2024)
- **McKinsey Forward Program Graduate** (2024)
- **ALX Software Engineering Program** – 4-month intensive, full scholarship (2024)
- **Flutter Development Course – ITI** (60 hours) (2023)

Skills

Technical Skills: Python, SQL, C/C++, JavaScript, HTML/CSS, Neo4j, Predictive Modeling, Data Wrangling, Power BI, UiPath, Git, Red Hat Linux, Coda.io, Adalo.io, Microsoft Office, MLOps (basic), Prompt Engineering

Language: Arabic (mother tongue), English (Fluent), German(basics)

References

All references will be furnished upon request.