OMAR AHMED ELSAYED

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SUMMARY

Data Engineer with hands-on experience in dbt, Snowflake, and modern data stack technologies. Experienced in optimizing data pipelines and implementing CI/CD workflows while pursuing a Computer Engineering degree. Combines practical expertise in Python, SQL, and cloud platforms with a strong foundation in embedded systems and machine learning. Proven ability to translate business requirements into efficient technical solutions while maintaining high standards for documentation and code quality.

TECHNICAL SKILLS

Languages: VHDL, C, CPP, Python, JavaScript, SQL, C#, Golang, Dart, Markdown, LaTeX
Tools: Git, SSH, Linux, dbt, Snowflake, PowerBI, Azure, GCP, VS Code, Visual Studio
Libraries: SciKitLearn, pandas, NumPy, Matplotlib, TensorFlow: Keras

EDUCATION

Arab Academy for Science, Technology and Maritime Transport — Cairo, Egypt
Bachelor of Science in Computer Engineering — *Sep. 2020 – May 2025*

ALX Data Science Course By ExploreAI (Sponsored by Mastercard) — Cairo, Egypt/Online
Comprehensive data science training covering analysis, modeling and cloud computing Certificate — *Apr. 2023 – Aug. 2024*

Visa - Forage — Online
Visa Token Service Technology Virtual Experience Program Certificate — *Feb 2023*

NVIDIA Deep Learning Institute — Online
Fundamentals of Deep Learning Certificate — *Nov 2022*

Udacity — Online
Machine Learning Cross-Skilling Nanodegree Certificate — *Jul 2022 – Aug 2022*

EXPERIENCE

Data Engineer I — Oct 2024 – Present
Raisa Energy — *Cairo, Egypt*
- Engineered custom dbt incremental strategies and materializations reducing pipeline build times by 70%, optimizing operational costs
- Architected and implemented end-to-end CI/CD pipeline for dbt projects, establishing automated testing and deployment workflows
- Designed and optimized complex data models powering mission-critical Power BI analytics dashboards
- Published technical blog post on dbt CI pipeline implementation (Link)

Data Engineering Intern — Jul 2024 – Sep 2024
Raisa Energy — *Cairo, Egypt*
- Spearheaded the modernization of dbt infrastructure, enhancing data transformation processes and pipeline efficiency
- Demonstrated exceptional performance leading to promotion to Data Engineer I role within 3 months
- Collaborated with cross-functional teams to translate complex business requirements into scalable data solutions

Subject Matter Expert — Jun 2023 – Dec 2023
Teleperformance Egypt — *Cairo, Egypt*
- Trained new agents while maintaining strict PCI compliance and data security protocols in an offshore technical support role

Embedded Electronics Team Member — Sep 2022 – Present
IEEE Aast Cairo Student Branch — *Cairo, Egypt*
- Designed and conducted multiple Python programming workshops for IEEE WIE and various school outreach programs, impacting 100+ students
- Led technical sessions on embedded systems and contributed to R&D of autonomous maze-solving robot for micro-mouse competition
- Volunteered in organizing IEEE Explore programming competition for the Egypt Section at AAST

Machine Learning Engineer — Mar 2023
Dell Hacktrick Hackathon — *Dell technologies, Cairo, Egypt*
- Collaborated in a team of six (DigitalSquad) to develop an intelligent agent for a maze problem using Deep Q-Networks algorithm.
- Implemented DQN algorithm in TensorFlow and PyTorch, and created a central repository for the code.
- Set up a cloud server on AWS EC2, and a Conda environment to reduce latency and ensure smooth code execution.
- Provided assistance on the algorithmic approach, and developed a translation layer for standard RL algorithms to work with the non standard competition environment.
- Ranked 7/200 and Won the award for best spirit team, and gained valuable experience in machine learning, teamwork, and problem-solving.

Entrepreneurs Team Member — Oct 2020 – Jan 2021
Enactus AAST — *Cairo, Egypt*
- Collaborated on UN SDG initiatives while creating analytical reports to track project outcomes and milestones