OMAR ABDEL RAHMAN

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EDUCATION

Bachelor of Electrical Power Engineering: Cairo University, Cairo, Egypt (Graduated 2024)

GPA: 3.0   Graduation Project GPA: 4.00

WORK EXPERIENCE

Math Teacher : Cairo, Egypt | 2021 – Present
- Delivered engaging math lessons, facilitating student learning and academic growth.

42 Abu Dhabi Programming School: Abu Dhabi, UAE | Aug 2022 – Sep 2022
- Engaged in "Peer-to-Peer Learning" system, handling challenging tasks to improve logical coding and optimization skills.
- Completed rush projects requiring complex problem-solving within tight deadlines.
- Topics covered: Command line interactions, elementary C programming, algorithms, code optimization, data structures, and software engineering principles.

Administrator, Middle East Security Company Cairo, Egypt | 2019 – 2020
- Managed administrative tasks including documentation, record keeping, and scheduling.

PROJECTS

Graduation project: Automated filling line with pick and place robot
- Integrated a computer vision model with a robotic arm to detect and classify bottle colors.
- Performed anomaly detection for labels, caps, and water levels.
- Responsibilities:
  - Data collection, annotation, and preprocessing.
  - Training and deploying the model.
- Technologies used:
  - PyTorch, Ultralytics (YOLO v5 model), Supervision, OpenCV.

For a comprehensive list of projects, please refer to my [GitHub](#).

CERTIFICATIONS AND SKILLS
- Machine Learning and Data Science Diploma (Epsilone AI).
- Deep Learning Specialization Coursera (DeepLearning.AI).
- PyTorch for Deep Learning & Machine Learning – Full Course.
- Coursat.ai NLP 2020 Youtube Course.
- Pytorch and Tensorflow Frameworks for Deep learning.