

Karim Ghazy

BACKEND DEVELOPER | ML ENGINEER

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2nd-year Information Systems student with practical project experience in Web Development and Artificial Intelligence

Summary

Active student with experience across multiple domains, focusing on Backend Development and Machine Learning Engineering. Developed 3 website backends using REST APIs and third-party libraries. Built flexible ML pipelines and developed high-accuracy models, including configuration-driven preprocessing. Participated in multiple programming competitions. Led small project teams and presented work in academic and professional contexts.

Currently pursuing internship opportunities and hands-on projects to apply and expand technical skills.

Experience

Back-End Trainee

Student Web Development Team — FCAI USC

June 2025 – Present

- Completed over 14 back-end development tasks, maintaining a delivery rate of 7 tasks per week and increasing team satisfaction by 25%.

Competitive Programmer Trainee

ICPC USC Training Community — FCAI USC

October 2024 – Present

- Acquired advanced proficiency in over 16 competitive programming topics and techniques, including Stress Testing, Dynamic Programming and Graphs, using the C++ language at an advanced level.
- Achieved a second place ranking in the community team contest, outperforming more experienced teams.
- Secured 1st position in level 1 qualification contest.

Entrepreneurship Intern

InnovEgypt — Hybrid

September 2025

- Contributed to the development of a potential startup by conducting 1 in-depth business owner interview, brainstorming 3 innovative ideas aligned with Egypt Vision 2030.
- Managed technical tasks from creating a brainstorming map to building a 5-page functional website prototype, improving team efficiency by 30%.
- Supported the delivery of a compelling 4-minute final pitch, securing second place among 8 competing teams.

Machine Learning Intern National Telecommunication Institute (NTI) — Online	August 2025 – September 2025
<ul style="list-style-type: none"> Designed supervised and unsupervised ML models, achieving over 95% accuracy on test results. Visualized a 2,000-record clustered dataset in 3D using the DBSCAN algorithm. Built a flexible regression pipeline using 11 pre-built regression models and Boolean preprocessing switches for compatibility with any regression dataset, contributing to an overall program score of 97.5%. 	

ECPC Participant Egyptian Collegiate Programming Contests — AASTMT	August 2025
<ul style="list-style-type: none"> Collaborated with a team to solve 4 problems; ranked 6th out of 24 FCAI USC teams and 44th out of 207 on day 3. 	

Education

University of Sadat City (USC) Bachelor of Information Systems	September 2024 – Present
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Relevant Coursework

Programming with C++, Information Systems, Management, Computer Networks.

Activities

- Provided technical support to the Faculty Student Union for 2 coding competitions.
- Gave a top-ranked presentation on the role of data scientists, outperforming more than 20 competing teams.

Relevant Online Coursework

Getting Started with Deep Learning Nvidia — Online	August 2025
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- Refined and validated a convolutional neural network using TensorFlow Keras via data augmentation and hyperparameter tuning, achieving 93% test accuracy.

CS50P Introduction to Programming with Python Harvard University — Online	July 2025 – August 2025
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- Implemented 40+ Python programs covering loops, exceptions, file I/O, regular expressions, and OOP.
- Programmed a hospital simulation terminal application using Python, utilizing different Python libraries and techniques.

CS50X Intro to CS and Programming Harvard University — Online	June 2023 – July 2023
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- Solved 30+ problem sets covering C, Python, Flask, REST APIs, SQL, HTML, CSS, JavaScript, data structures, and algorithms.
- Developed 3 full-stack websites aligned with course expectations and best practices.

Skills

Technical Skills

- **Languages & Libraries:** Python (Pandas, NumPy), C/C++, scikit-learn, TensorFlow / Keras
- **Machine Learning:** Pipelines, Feature Engineering, Regression / Classification / Clustering, Supervised Learning / Unsupervised Learning, hyperparameter tuning, model evaluation, Model Deployment, Deep Learning, Neural Networks / CNN
- **Backend & Web:** Flask, REST APIs, SQL, HTML, CSS, JavaScript, Bootstrap
- **Workflow & Tools:** Version Control (GitHub)
- **Data:** Data Preprocessing, Data Visualization, Exploratory Data Analysis (EDA)

Soft Skills

- Continuous Learning
- Creativity and Innovation
- Collaboration and Teamwork
- Communication and Presentation Skills

Languages

- **Arabic:** Native proficiency
- **English:** Professional working proficiency