

# 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

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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

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#### Back-End Trainee

June 2025 – Present

Student Web Development Team — FCAI USC

- 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

October 2024 – Present

ICPC USC Training Community — FCAI USC

- 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 1<sup>st</sup> position in level 1 qualification contest.

#### Entrepreneurship Intern

September 2025

InnovEgypt — Hybrid

- 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

August 2025 – September 2025

National Telecommunication Institute (NTI) — Online

- 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

August 2025

Egyptian Collegiate Programming Contests — AASTMT

- Collaborated with a team to solve 4 problems; ranked 6<sup>th</sup> out of 24 FCAI USC teams and 44<sup>th</sup> out of 207 on day 3.

## Education

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### University of Sadat City (USC)

September 2024 – Present

Bachelor of Information Systems

### 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

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#### Getting Started with Deep Learning

August 2025

Nvidia — Online

- 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

July 2025 – August 2025

Harvard University — Online

- 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

June 2023 – July 2023

Harvard University — Online

- 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

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### 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

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