

## Ahmed Samir Awed

### Assistant Lecturer Candidate – Computer Science / Computer Engineering

 El Maadi, Cairo, Egypt

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 Portfolio: <https://ahmedsamir45.github.io/my-portfolio-/>

 GitHub: <https://github.com/ahmedsamir45>

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## Academic Profile

Assistant Lecturer candidate with a strong foundation in Computer Science, Programming, Data Structures, Networking, and Software Engineering. Currently pursuing a Pre-Master's degree with research focus in Computational Mathematics and Computer Science. Experienced in teaching, laboratory instruction, curriculum support, and student mentoring. Actively engaged in AI, Machine Learning, and applied research projects, including a full graduation research project in image captioning using deep learning.

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## Education

### Pre-Master's Degree – Computational Mathematics / Computer Science

#### Faculty of Science, Cairo University | 2025 – Present

- Preparation for Master's-level academic research and publication

#### Bachelor of Science in Mathematics & Computer Science

#### Faculty of Science, Helwan University | 2021 – 2025

- Core coursework:  
Data Structures, Algorithms, Programming, Computer Networks,  
Operating Systems, Software Engineering, Machine Learning
  - Graduation Project: Image Captioning using Deep Learning
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## Teaching & Academic Experience

### Software Programming Instructor

### **Almentor / DECI | Cairo | Dec 2024 – Present**

- Delivered lectures and lab sessions in programming fundamentals and problem solving
- Designed hands-on exercises and assessments
- Mentored students and supported diverse learning styles

### **Frontend Instructor (Volunteer)**

### **Developer Student Clubs (DSC) | Feb 2025 – Present**

- Taught HTML, CSS, JavaScript, Bootstrap, git & github
  - Assisted in workshops, technical sessions, and student projects
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### **Backend Developer Intern (Python)**

### **Information Technology Institute (ITI) | Sep 2024 – Oct 2024**

- Built backend systems using Django, Flask
- Designed REST APIs and database models
- Applied software engineering principles

### **Frontend Developer Intern (React)**

### **ITI | Jul 2024 – Aug 2024**

- Developed responsive web applications
  - Integrated APIs and improved UI performance
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## **Programming & Technical Skills**

### **Programming Languages**

Python, C, C++C#, Kotlin, JavaScript, TypeScript, SQL, Bash

### **Core Areas**

Data Structures & Algorithms, Software Engineering, Computer Networks, Database Systems

### **Specialized Areas**

Artificial Intelligence & Machine Learning, Data Science, Web & API Development

## Frameworks & Tools

Django, Flask, Django REST Framework, React, Bootstrap, tailwind, PostgreSQL, MySQL, MongoDB, Git, Docker, Postman, Swagger, Linux

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## Student Activities

### Vice Head – IT Committee

#### SAF (Student Activity Family) | Dec 2024 – Dec 2025

- Led technical initiatives and student projects
  - Supported workshops, seminars, and competitions
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## Projects

- **Graduation Research Project Image-to-Caption Deep Learning**  
 <https://github.com/ahmedsamir45/image-to-caption-research-project>
  - Designed an end-to-end image captioning system
  - Used CNNs (EfficientNetB7) for feature extraction
  - Applied RNN / LSTM models for sequence generation
  - Built RESTful API with authentication, rate limiting, and documentation

Technologies: Python, Django, DRF, CNN, RNN, LSTM, React, REST API, transformers

Dataset: COCO Data Set

Evaluation: BLEU score analysis

- **Text Summarization (NLP – T5, RNN)**  
 <https://github.com/ahmedsamir45/tytopya>
- **SAF Blog Backend System**  
 <https://github.com/ahmedsamir45/SAF-Website-backend>
- **See More**  
 <https://github.com/ahmedsamir45>