PERSONAL INFORMATION

Mena Nagy A. Khalaf

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Sex Male | Date of birth 20/11/1996 | Nationality Egyptian

Military Status: Exempted

JOB

STUDIES APPLIED FOR

PERSONAL STATEMENT

Information System Teacher Assistant

PhD in Bioinformatics and Data Science

Single

WORK EXPERIENCE

July, 2019 – Now

Experienced over four years of instructional expertise in Bioinformatics, Information Systems, and Computer science as a **Teacher Assistant** at Faculty of Computers and Information, Assiut University, Egypt.

Courses taught:

- BNF301 : Introduction To Bioinformatics
- BNF302 : Algorithms in Bioinformatics
- BNF303 : Scripting Languages in Bioinformatics
- BNF412 : Seminars in Bioinformatics
- BNF414 : Biological Databases
- BNF421 : Structural Bioinformatics
- BNF422 : Computational Biology Techniques
- IS212   : Databases
- IS321   : Advanced Project Management
- IS414   : Data Mining And Business Intelligence
- IS442   : IS Application Development
- CS241   : Object-Oriented Programming

August, 2019 – Now

Enthusiastic **Researcher** eager to contribute to team success through hard work, clear understanding of synthesis and purification and training in high qualifications in research. Motivated to learn, grow, and excel in developing efficient software applications and solving problems.

EDUCATION

November, 2023

✓ **Master**'s in Information Systems program at Assiut University, Faculty of Computers and Information in November 2023. During my studies, I specialized in the research area focusing on **'Prediction of Molecular Compound Structures using Deep Learning'** for my master's thesis.

2019-2020

✓ Pre-master's in Information System Department, Faculty of Computers and Information, Assiut University, Assiut, Egypt.

August, 2015 – June, 2019

✓ Bachelor of Information Systems
  - Faculty of Computers and Information, Assiut University, Assiut, Egypt.
  - GPA: 3.74 (Excellent) (A-)
  - Achieved first rank in batch over four years and eight semesters

Publications

2023

1. **Mena Nagy A. Khalaf**, Taysir Hassan A Soliman, and Sara Salah Mohamed, " PLM-GAN: A large-scale protein loop modeling using pix2pix GAN." (Accepted for publication in the ACS Omega, **a journal ranked in the Q1 quartile**).

2023

2. **Mena Nagy A. Khalaf**, Taysir Hassan A Soliman, and Sara Salah Mohamed, "Generating nature- resembling tertiary protein structures with advanced GAN". (Publication in

international journal of advanced computer science and applications (IJACSA) - volume 14 no 8 august 2023.).

2023

3. **Mena Nagy A. Khalaf**, Taysir Hassan A Soliman, and Sara Salah Mohamed, " ROD-WGAN hybrid: agenerative adversarial network for large-scale protein tertiary structures ", (Accepted for presentation and publication in **the IEEE/ICCA23 proceedings**)

Presentations

- Presented paper titled "ROD-WGAN Hybrid: A Generative Adversarial Network for Large-Scale Protein Tertiary Structures" at IEEE/ICCA23 Conference in The British University in Egypt BUE.
- Contributed to many presentations for undergraduate practical courses.

PROGRAMMING SKILLS

- Data Science: Machine and Deep Learning, Computer Vision, and Bioinformatics
- Programming Language: Python, R, Matlab, PHP, C++, Java, and C#
- Package: Pytorch, Keras, Tensorflow, Scikit-learn
- Web: Laravel, HTML & CSS, Jquery, JavaScript, Ajax, BootStrap, WordPress, and ASP.Net
- Tools: Pycharm, Anaconda, Jupyter notebook, MOE, Chimera
- Document and Office Apps: Microsoft Office, Google Docs, and LATEX

LANGUAGE SKILLS

- Arabic (excellent)
- English (good)
- France (poor)

ADDITIONAL INFORMATION

Projects   Graduation Project: titled Facial recognition system. Research project

Seminars   More than five seminars related to my master thesis topic.

Courses   Computer Science, Data Science, and Bioinformatics practical courses (as a teacher). Master courses as a student.

Key SKILLS
- Problem Solving
- Creative Discussions
- Camp and Conference Organization
- Ability to Work in Groups
- Working Under Pressure
- Good Research Abilities
- Planning and Organization
- Interpersonal Skills
- Technological Instruction
- Strong Collaboration
- Creative Learning Strategies
- Reading

Other activities
- I supervised several graduation projects for the Department of Bioinformatics.
- I am the **creator of the 'Narmer Academy' YouTube channel** (https://www.youtube.com/@NarmerAcademy), which has garnered close to 20,000 views in less than 7 months. Through this channel, I provide free educational content on bioinformatics and computer science, aiding students in comprehending intricate subjects.

Thank you too much