Salma Khaled Khashaba

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PROFILE

Passionate student in the field of computer science and engineering, equipped with experience in software and hardware domains. Eager to join a dynamic team where I can learn from experienced professionals and continue to grow my skill set. I am dedicated to making meaningful contributions by applying the knowledge and skills acquired during my academic journey.

EDUCATION

Bachelor Degree in Computer Science and Engineering   02/2023 – 06/2023
German University in Cairo   New Cairo, Egypt
Enhancing Data Security: Image Encryption Using Cellular Automata
Grade: Excellent (A+)

German University in Cairo   10/2019 – present
Faculty of Computer Science and Engineering   New Cairo, Egypt
GPA German Grading System - 2.5 (Equivalent to very good)

Dr. Nermine Ismail American School   2006 – 2019
GPA - 4.0   New Cairo, Egypt

PUBLICATIONS

Image Encryption Through Cellular Automata, S-Box and Tent Chaotic   06/2023
Map 🔗
The paper presents a novel 3-stage image encryption technique using cellular automata, an S-box, and the Tent chaotic map to safeguard sensitive data and prevent unauthorized access.

PROFESSIONAL EXPERIENCE

Security of Image Communication   06/2023 – 08/2023
German University in Cairo   New Cairo, Egypt
Developed a novel image encryption algorithm that utilizes a 5D memristive hyperchaotic system, S-Box, and the Rabinovich-Fabrikan system to ensure robust security and computational efficiency.

Introduction to Python Junior Teaching Assistant   10/2022 – 01/2023
German University in Cairo   New Cairo, Egypt
Assisted in educating first year students on the subject of Introduction to Computer Science Using Python.

Network Infrastructure Management Intern   07/2022 – 08/2022

Talaat Mostafa Group   Madinaty, Egypt

Learned about network infrastructure management through monitoring and
troubleshooting tasks, including WAN connections, routers, and switches, as
well as performing scheduled backups and recovery testing procedures.

SOFT SKILLS

- Time Management
- Fast Learner
- Adaptability
- Team Worker

TECHNICAL SKILLS

Java — Expert
SQL — Proficient
Python — Proficient
C++ — Proficient

JavaScript — Expert
HTML/CSS — Expert
Embedded C/ Arduino C — Proficient
Prolog — Proficient

PROJECTS

Unity Game Collection

Developed a series of Unity-based games, including an endless runner, a choice-driven game with
dynamic scene transitions, and a third-person shooter inspired by Resident Evil 4.

University Record Management System

Created a record management system using C# and SQL, designing a comprehensive database to
streamline the storage and retrieval of academic records.

Virtual Clinic Interface Prototype

Implemented a prototype for a virtual clinic website using Marvel App, focusing on user-centric design
to enhance accessibility and engagement.

Strategic Game Development

Created a strategy game, 'Conqueror,' using Eclipse and Java, incorporating object-oriented
programming principles for advanced gameplay elements.

E-Commerce Website Creation

Built an online shopping website using JavaScript and React, ensuring an intuitive user interface and
seamless shopping experience.

2D and 3D Game Programming

Built 2D and 3D games using OpenGL, showcasing skills in advanced graphics programming and real-
time rendering techniques.

LANGUAGES

Arabic   ● ● ● ● ●   English   ● ● ● ● ●

German   ● ● ○ ○ ○