OSAMA TAHA

Driving Innovation in Computer Engineering

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Education

Computer Science and Engineering   *Egypt-Japan University of Science and Technology*
Minor: Cyber Security   *Oct 2021 – Present*

I have experience in developing software applications, designing databases, and troubleshooting hardware and software issues. My technical skills include programming languages such as C++, Java, Python, and HTML. I also have experience in working with various operating systems such as Windows, Linux, and Mac OS. Additionally, I am familiar with web development tools such as HTML5, CSS3, JavaScript, and jQuery. My interpersonal skills include excellent communication and collaboration abilities which enable me to work effectively with teams of all sizes. I am highly motivated to learn new technologies and apply them to solve complex problems.

Aerospace Engineering Department   *Zewail City of Science and Technology*
Minor: Robotics and Mechatronics   *Oct 2019 – June 2021*

Started my educational pursuit at Zewail City, where I embarked on studying Aerospace Engineering, nurturing a passion for technology and innovation. Recognizing my strong affinity for computer engineering, I transferred to the Egypt-Japan University of Science and Technology (E-JUST) to pursue a degree in Computer Engineering. This transition allowed me to combine my fascination for aerospace with my enthusiasm for computer science, enabling me to approach complex problems with a multidisciplinary perspective. This unique trajectory has equipped me with a diverse skill set and a holistic understanding of engineering principles, empowering me to tackle challenges from both aerospace and computer engineering perspectives.

Work Experience

Zewail City of Science and Technology   *Fall 2020 - Fall 2021*
Junior Teaching Assistant

- *Assisted the main instructor in delivering the Introduction to Programming course, focusing on Python programming fundamentals. Collaborated closely with the instructor to develop course materials, including lecture slides, assignments, and practical coding examples.*
- *Provided guidance and support to students during class sessions and office hours, addressing queries and explaining complex programming concepts. Conducted coding exercises and projects, assignments and provided constructive feedback to facilitate student improvement.*
- *Stayed updated with the latest advancements in Python programming and actively contributed to meetings with fellow teaching assistants to enhance the course.*

M3ml (Facebook Page)   *Jan 2021 – Sep 2021*
Web Developer, Journalist

- *As a Web Developer and Journalist at M3ml, I played a pivotal role in designing and developing the website, creating a seamless user experience and ensuring optimal functionality.*
- *I contributed to the content creation and journalistic efforts of the Facebook Page, crafting engaging and informative articles to keep the audience informed and entertained.*
- *During my tenure, I demonstrated a strong blend of technical expertise and journalistic skills, effectively utilizing both to deliver captivating web experiences and compelling written content.*

Student Activities

Zewail City Student Union   *Spring 2020 – Fall 2020*
Engineering Students' Representative

- *During the challenging period of the COVID-19 pandemic, I successfully navigated the unique circumstances as a representative for engineering students in the student union of Zewail City.*
- *Through innovative virtual platforms and proactive communication, I ensured that the voices of engineering students were heard and their needs were met amidst the uncertainties.*

- I adapted to the evolving situation and actively collaborated with stakeholders to implement measures that supported the well-being and academic progress of engineering students during these unprecedented times.

IEEE - Zewail City *Jan 2020 – Jan 2021*
IT Manager, HR Manager, Multimedia Designer

- As an integral part of IEEE - Zewail City, I held multifaceted roles as the IT Manager, HR Manager, and Multimedia Designer from January 2020 to January 2021.
- During this tenure, I actively contributed to the organization's success by coordinating and managing various projects, including the impactful event "Elmesh Mohandesa Leeh" (Why She is not an Engineer?), which aimed to empower and inspire women in the engineering field. Through my diverse skill set, I played a pivotal role in fostering a dynamic and inclusive environment within the IEEE community at Zewail City.
- In addition to my roles at IEEE - Zewail City, I played a key role in organizing the "CEC" (Crisis Engineering Contest). This unique event challenged participants to apply their engineering skills and innovative thinking to solve real-world crisis scenarios. By coordinating logistics, managing teams, and ensuring smooth execution, I contributed to the successful implementation of the contest, fostering a spirit of collaboration and problem-solving among engineering enthusiasts.

NipponBu (Japan Club) - Zewail City *Feb 2021 – July 2021*
Project Manager, Fundraising Administrator

- As a Project Manager and Fundraising Administrator at NipponBu (Japan Club) in Zewail City, I successfully led and managed various projects, fostering cultural exchange and promoting Japanese traditions within the university community.
- During my tenure, I efficiently organized fundraising activities, securing essential financial resources to support club initiatives, events, and cultural programs, ensuring their successful execution.
- Through my role, I enhanced collaboration and teamwork, working closely with club members, sponsors, and stakeholders, contributing to a vibrant and engaging environment that celebrated the rich heritage and values of Japanese culture.

Technical Skills

Programming Languages	C++, C#, Python, Java, SystemVerylog, MATLAB
Web Development	HTML, CSS, JavaScript, PHP, LaTeX
Operating Systems	Windows, Linux (Ubuntu, Kali, CentOS), macOS
Image Processing	OpenCV, MATLAB Image Processing Toolbox
Encryption	OpenSSL, AES, RSA, Steganography
Database Management	SQL, MySQL, PostgreSQL
Version Control	Git, SVN
Data Analysis	Pandas, NumPy, MATLAB
Machine Learning	TensorFlow, PyTorch
Networking	TCP/IP, DNS, DHCP, Wireshark

Languages

Arabic	Native
English	Advanced
German	Beginner

Awards

AUC Robotics Hackathon	A mine-detecting robot equipped with advanced sensors and algorithms, capable of efficiently detecting and extracting mines to ensure safer environments.
Zewail City Chess Club	A skilled and strategic chess player, demonstrating expertise in anticipating moves and executing calculated strategies.

Soft Skills

Problem-Solving Demonstrated ability to identify and analyze problems, develop creative solutions, and implement them effectively. Proficient in troubleshooting hardware and software issues to ensure optimal functionality.

Adaptability Flexible and quick to adapt to new technologies, programming languages, and frameworks. Able to easily transition between different operating systems and environments.

Collaboration Strong interpersonal skills with a proven track record of working effectively in teams of diverse backgrounds and sizes. Excellent communication skills facilitate seamless collaboration and enable productive teamwork.

Continuous Learning Proactive and highly motivated to acquire new knowledge and stay updated with the latest technologies and industry trends. Willingness to explore new concepts and technologies to enhance problem-solving capabilities.

Innovation A passion for creating innovative solutions and pushing boundaries. Ability to think outside the box and propose novel approaches to problem-solving and software development.

Leadership Proven ability to lead and guide teams towards achieving common goals. Effective decision-making, delegation, and mentorship skills to inspire and motivate team members.

Time Management Strong organizational skills, adept at prioritizing tasks and managing deadlines. Demonstrated ability to work efficiently under pressure and deliver high-quality results within given timeframes.

Critical Thinking Sharp analytical skills to evaluate complex problems, identify patterns, and devise strategic solutions. Proficient at gathering and analyzing information to make informed decisions.

Communication Excellent verbal and written communication skills, enabling clear and effective interaction with team members, stakeholders, and clients. Strong presentation skills to convey ideas and information in a concise and engaging manner.

Attention to Detail Meticulous and thorough approach to work, ensuring accuracy and precision in tasks. Ability to identify and rectify errors, ensuring the delivery of flawless outputs.