

# MAHMOUD DARWISH

COMPUTER ENGINEERING AT THE AMERICAN UNIVERSITY OF SHARJAH



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## AWARDS

**2<sup>nd</sup> PLACE | MENA HACK MY ROBOT**  
| CSAW CONFERENCE, NYU ABU DHABI,  
ABU DHABI - 2023

**2<sup>nd</sup> PLACE | KIBO SPACE COMPETITION**  
| JAPAN AEROSPACE EXPLORATION  
AGENCY - 2023

**1<sup>st</sup> PLACE | CTF CODING COMPETITION**  
| AMERICAN UNIVERSITY OF SHARJAH,  
SHARJAH - 2023

**26<sup>th</sup> PLACE | INT. BATTLECODE TOURNAMENT**  
| MIT UNIVERSITY, USA - 2022

**2<sup>nd</sup> PLACE | ADU CODING COMPETITION**  
| ABU DHABI UNIVERSITY, ABU DHABI -  
2022

**1<sup>st</sup> PLACE | ADU NATIONAL HACKATHON**  
| ABU DHABI UNIVERSITY, ABU DHABI -  
2022

## EXTRA CURRICULAR ACTIVITIES

**ALPHA LAMBDA DELTA HONOR SOCIETY**  
| PRESIDENT

**AL THIQAH CLUB FOR THE HANDICAPPED**  
| WEEKLY VOLUNTEER

**ENGINEERING STUDENTS CONSULTING  
SOCIETY | VICE PRESIDENT**

## SKILLS

### Languages

- Arabic - First Language
- English - Fluent

### Programming Languages

- C# - Proficient
- Java - Proficient
- Python - Proficient
- C++ - Proficient
- HTML - Competent
- JavaScript - Competent
- TypeScript - Competent
- React - Competent

## PUBLICATIONS

**SECOND AUTHOR IN THE PAPER TITLED**  
"EXPLORING THE GENERALIZABILITY OF  
TRANSFER LEARNING FOR CAMERA TRAP  
ANIMAL IMAGE CLASSIFICATION"

PRESENTED AT:  
ECML-PKDD, SOGOOD 2023 CONFERENCE

## EDUCATION

**American University of Sharjah**  
Bachelor of Computer Engineering  
Aug 2022 - Present

## EXPERIENCE

**Senior AI Research Assistant | American University of Sharjah - Sharjah**  
Feb 2023 - Present

- Developed applications for analyzing animal movement with Emirates Nature WWF, reducing analysis time by 80% and directly impacting wildlife preservation efforts.
- Conducted comparative analysis of deep learning models trained with synthetic data to assess effectiveness, utilizing datasets of up to 100,000 samples.
- Provided weekly lectures to Junior Research Assistants on advanced topics in AI and machine learning.
- Managed multiple research teams, ensuring timely submission of meeting notes and progress reports.
- Oversaw project timelines, ensuring teams meet deadlines and project progresses smoothly, achieving a high on-time completion rate.
- Equitably allocated resources among research groups, including state-of-the-art clusters.
- Presented research findings at Europe's top machine learning conference, ECML PKDD, attended by over 800 professionals in the field.

**IoT Solutions Intern | Abu Dhabi**  
May - July 2023

- Developed parking detection software and deployed it on edge devices for efficient monitoring.
- Implemented a human counting system utilizing computer vision and security cameras to enhance facility management.
- Contributed to documentation writing for various products and APIs to ensure comprehensive understanding and ease of use.
- Facilitated seamless real-time data transmission by establishing connections between edge devices and servers using the MQTT protocol.

**Freelance Software Engineer | Abu Dhabi**  
Nov - Jan 2022

- Developed a comprehensive application to monitor 200 students' daily progress, generating customizable progress reports for teachers in both spreadsheet and PDF formats.
- Assisted educators in identifying students' weaknesses promptly, facilitating targeted interventions.
- Utilized C# to design the user-friendly interface of the application, ensuring ease of navigation for teachers.
- Enhanced efficiency by optimizing data load times through dynamic storage of frequently accessed data on users' devices.

## UNIVERSITY POSITIONS

### RESIDENTIAL ASSISTANT

- Planned and organized community events to engage approximately 250 residents.
- Mediated conflicts and promoted positivity within the residential environment.
- Communicated effectively with staff and residents via email, meetings, and bulletin boards.
- Maintained accurate records of occupancy and incidents.
- Managed event budgets efficiently to maximize resources and deliver engaging activities for the community.

### IT SPECIALIST

- Provided technical support to faculty, staff, and students, resolving around 100 tickets monthly.
- Installed and configured software/hardware, and managed IT resources.
- Collaborated closely with IT staff to maintain optimal functionality of campus technology systems and services.
- Efficiently managed ticketing system, resolving issues promptly and ensuring seamless operations.