HAMAD H. ALSHERAIFI

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RESEARCHER

EXPERIENCES

Abu Dhabi, UAE
June 2022 – Present

Researcher
Center for Biotechnology (BTC) | Khalifa University (KU)

Spent the first two months on AI & Robotics training at KU. Covered ML/DL principles in depth, such as ANNs, CNNs, GANs, ensemble learning, and other AI principles.

Al Ain, UAE
January 2021 – April 2021

Software Engineering Intern
National Space Science & Technology Center (NSSTC), UAEU

Developed a desktop (GUI) simulation software, using Python and Arduino, that acts as a replica to the telecommand/telemetry process in the satellite with UART as the communication protocol. Provided presentations at NSSTC. Contributed with NSSTC's "GNSSaS Weekly Project Meeting" to follow up with the entire team's progress and to share updates on my development status.

Al Ain, UAE
September 2017 – November 2017

Peer Tutor
Tutorial Center, UAEU

Assisted students in English language mainly in Speaking, Writing, and Grammar. Helped students prepare for English tests (IELTS, UGRU English levels 1-4).

AWARDS

June 2022
Member of the Elite Program. One of the 32 (1%) selected, by KU and National Service & Reserve Authority (NSRA), in the 17th Batch of UAE national service across the country to conduct research at KU for the military.

December 2020
1st place Senior Project at the College of I.T., UAEU

Fall 2018 - Fall 2020
Dean's List

CERTIFICATIONS

August 2022 – 2028
Biomedical RCR from CITI Program

November 2021
Python Certificate from Hackerrank.

April 2018
Certified Basic Level Tutor by National Tutoring Association (NTA)

EXTRACURRICULARS

March 2020
Participated in the UAEU "Coronavirus Awareness Contest" & built a website that raises awareness of the SARS-CoV-2.

April 2018
Took part in the 4th UAEU Annual Undergraduate Student Research Conference 2018 to share our research based on the prevalence on diabetes in the UAE.

SKILLS

PROGRAMMING LANGUAGES: -
C++, Python, Rust, Arduino, Java, Verilog, Embedded C

AI/ML/DL TECHNIQUES: -
Linear Regression/Classification, Ensemble Learning (trees), ANNs, CNNs, GANs, Computer Vision (OpenCV)

WEB-DEVELOPMENT TOOLS: -
HTML, CSS, JavaScript, Bootstrap, WordPress, Django, GitHub Pages

IOT PLATFORM: - Thinger.io

OPERATING SYSTEMS: -
Windows OS, MacOS, Linux

ELECTRICAL/HARDWARE: -
Digital Design, Logic Gates, Arduino Boards, Wiring, Electrical Components

NETWORKING: -
IPv4, TCP, UDP, UART, IP Classes, Subnetting

SOFTWARE DESIGNING TOOLS: -
Google Colab, VS Code, PyCharm, MS Visual Studio, MS Office, Tinkercad, Packet Tracer, NI Multisim, iMovie, Tkinter

PROJECTS

CUSTOM VANILLA GAN MODEL
Developed a Vanilla-based GAN model suitable and efficient for binary classification: to generate a proper training set for ML-based classifier.

SCOOTER INCIDENT REPORTING SYSTEM (SENIOR PROJECT)
Designed an attachable device to an e-scooter whose duty is to detect a fall, collision, or a crash from the e-scooter and transmit the data to the IoT platform via Wi-Fi.

HOTEL RESERVATION WEBSITE
Built a full-stacked website using frontend tools (HTML, CSS, JS) with PHP as the backend and MySQL as the database.

EDUCATION

U.A.E. University (UAEU)
Al Ain, UAE | May 2021
Bachelor of Science in Computer Engineering
Major GPA: 3.68
Cumulative GPA: 3.51

REFERENCES

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Dr. Fekri Kharbash
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