

# HAMAD H. ALSHERAIFI

—Researcher—



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https://hameon4.github.io

## EXPERIENCES

Abu Dhabi, UAE June 2022 – Present	<b>Researcher</b> Center for Biotechnology (BTC)   Khalifa University (KU)
Abu Dhabi, UAE June 2022 – August 2022	<b>Data Science Intern</b> Emirates ICT Innovation Center (EBTIC)   Khalifa University (KU)  Covered ML/DL principles in depth, such as ANNs, CNNs, GANs, ensemble learning, and other AI principles. Developed a GAN model for binary classification.
Al Ain, UAE January 2021 – April 2021	<b>Software Engineer Intern</b> 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	<b>Peer Tutor</b> 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 17 <sup>th</sup> Batch of UAE national service across the country to conduct research at KU for the military.
December 2020	1 <sup>st</sup> place Senior Project at the College of I.T., UAEU
Fall 2018 - Fall 2020	Dean's List

## CERTIFICATIONS

September 2022	IELTS (Academic) Band 7.5
August 2022 – 2028	Biomedical RCR from <a href="#">CITI Program</a>
November 2021	Python Certificate from <a href="#">Hackerrank</a> .
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 4 <sup>th</sup> 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, Tinker

## 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

Dr. Mohammad Naouss

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