AYESHA MUHAMMAD AKHTAR

Computer Engineer

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Highly dedicated individual, fluent in several programming languages with experience in machine learning and mobile app development currently employed as a Product Analyst. Seeking to pursue higher education for Master in the field of Computer Science whereby I could advance and gain invaluable experience in the field of Natural Language Processing and Computer Vision, as well as enhance on personal skills and abilities.

CORE SKILLS

Programming Skills in: Java, C, Python, Bash, SQL, R Language, Assembly Language, JavaScript, CSS, HTML5, VHDL, jQuery, AngularJS

Softwares: LaTex, MATLAB, Eclipse Java, NetBeans IDE 8.2, WebStorm, PyCharm, AndroidStudio, Jupyter, LabView, keiluVision 5, Multisim, RStudio, Altera Quartus II, EasyEDA, InVision

Adobe Suite: Photoshop, InDesign, Illustrator, AdobeXD **Microsoft Office:** Word, Outlook, MS Excel and PowerPoint

EDUCATION & CERTIFICATIONS

ABU DHABI UNIVERSITY (ADU), UAE

2015 - 2019

Bachelor of Science in Computer Engineering, ABET-ACCREDITED

- Awarded Honors scholarship of 40% upon joining. Maintained CGPA of 3.9+ since first semester, at WASC internationally accredited university
- Recipient of the Dean's List Award for 7 semesters
- Graduated with Summa Cum Laude Honors [Graduating CGPA 3.96]

Graduation Project

Assessment of Defects in Photovoltaic (PV) Modules using Thermal Imaging & AI

Related Coursework

Artificial Intelligence
Big Data
Mobile Applications
Data Communications & Networks
Database Management Systems
Embedded Linux System Design
Object Oriented Programming

Operating Systems

Distributed Information Systems Microprocessors & Firmware

Programming

Advanced Digital System Design Data Structures & Algorithms

Signals & Systems

PROFESSIONAL EXPERIENCE/VOLUNTEERING

PRODUCT ANALYST - Saal.ai, Abu Dhabi

Oct 2020 - Present

Received promotion within 2 months of being hired as a RA. Along with prior RA responsibilities, my work also includes:

 Oversee design, development and delivery cycle, define product roadmap, knowledge graphs, user journeys, backlog requirements, and collaborate with cross-functional teams. • Carry out product and market research, data analysis, data visualization, prototyping and product testing.

RESEARCH ASSISTANT (RA) – Saal.ai, Abu Dhabi

Aug 2020 - Oct 2020

- Research into available datasets, AI models, architectures, and technologies to understand the development pipeline for AI modules.
- Contributions in the AI division and development of various NLP/NLU based products.
- Conducting competitor analysis and market research of ML products.
- Providing product & content support for ongoing DOH COVID-19 chatbot.

INTERN - Saal.ai, Abu Dhabi

Sept 2019 - Aug 2020

- Application/Product Research and Design to utilize and showcase in-house AI modules.
- Data gathering and scraping for NER, frontend, and backend development (flask rest API implementation) to demonstrate NLU capabilities.
- Product & content support for COVID-19 Health Advisory Platform and Bilingual Cognitive Virtual Assistant (CVA Chatbots) in collaboration with Department of Health (DOH).

DIRECTOR OF COMMUNICATIONS – ADU Student Council

Responsible for the handling of Student Council social media accounts, serving as a communicator between the council and the departments around ADU and providing a platform through which students could voice their opinions and concerns. Also responsible for promoting events around campus and advertising the proceedings of the council.

EVENTS MANAGER – IEEE ADU Student Branch

Sept 2017 - Jan 2019

Responsible for managing and executing IEEE related workshops and events along with working closely will all the necessary departments to ensure the on-site events and activities are executed as per planned.

PEER MENTOR - ADU Student Affairs

Dec 2017 - Apr 2019

Guiding and helping freshmen through their first academic year to successfully bridge the gap between high school and university life.

DESIGNER - ADUVoice Magazine

Sept 2017 - Apr 2019

Responsible for regularly designing articles for the official student-run magazine.

EVENTS PROMOTER - ADU Student Council

Jun 2017 - Aug 2018

Responsible for promoting the student council events through various class visits, announcements, posters, and the social media accounts of student council to garner a larger audience for each event. Also having worked as a part time designer.

SENIOR MENTOR - ADU Academic Success Center

Jan 2016 - Jan 2018

Responsible for guiding and tutoring peers in courses they faced difficulties via one-on-one and group sessions.

SCIENCE COMMUNICATOR – Abu Dhabi Science Festival, ADEK

Nov 2016

Organized and delivered various science workshops and exhibitions for the visitors.

PROJECTS

- Embedded Linux System Design Laser Human Counter using RaspberryPis
- Dubai Maker Faire Hackathon Smart School Supplies Vending Machine using Ebot
- Embedded Networks Laser Tag Game Using Arduino and AdaFruit Feather
- Microprocessors & Firmware Programming Sumo Wrestling Robot
- Advanced Digital Sys Design Amusement Park Ride Sys. using FPGA (Altera Cyclone IV)
- ◆ **Mobile Applications** Book Swap Mobile Application

ACHIEVEMENTS & COMPETITIONS

- 2nd Place Winner in Dubai Maker Faire Hackathon Hamdan Bin Rashid Al Maktoum Foundation For Distinguished Academic Performance
- Participated in UAE Think Science 2019: Self-Maintaining Photovoltaic Farm
- Participated in 7th UAE Undergraduate Research Competition 2019: Assessment of Defects in Photovoltaic (PV) Modules using Thermal Imaging & AI
- Participated in Emirates Environmental Group (EEG) Inter-College Environmental Public Speaking Competition 2016: Sustainable Development Goals 2016
- Participated in ADU English Debate Competition 2016