Amr Alshatnawi

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Personal Website in/amralshatnawi

SUMMARY

I'm a Software Quality Engineer at Medtronic, where I collaborate with cross-functional teams to develop and enhance innovative medical devices. I recently graduated from the University of Chicago with a master's in Biomedical Informatics and have a strong background in Computer Science. My passion for AI, machine learning, and data science drives me to leverage these technologies to solve complex problems. As a lifelong learner committed to innovation and collaboration, I plan to pursue a PhD in Data Science or Biomedical Informatics to advance my ability to tackle real-world challenges and create impactful solutions across various fields.

EDUCATION

Master of science in Biomedical Informatics

The University of Chicago • GPA: 4.00 • Chicago, IL • 2023 - 2024

Bachelor of science in Computer Science

Saint Xavier University • GPA: 4.00 • Chicago, IL • 2020 - 2022 Awarded the Outstanding Computer Science Student Award Outstanding Project Presentation Award

EXPERIENCE

Associate Software Quality Engineer- Medtronic

Within the Neuromodulation team at Medtronic, I collaborate with cross-functional teams to develop and enhance innovative medical devices, ensuring they meet our high standards and improve patient outcomes.

Student Researcher - University of Chicago & Northwestern Medicine

Working with Dr. David Liebovitz MD, at Northwestern Medicine on a master's capstone project titled "MediTools - Medical Education Powered by LLMs" to create tools with the goal of enhancing efficiency and effectiveness in medical workflows. Contributed to advancing the integration of AI and LLMs in medical education, exploring the potential and challenges of adopting these technologies to improve learning outcomes and healthcare delivery.

Summer Research Scholar - University of Houston

Neuromotor Skill Advancement for Post-baccalaureates (NSAP) trainee at the IUCRC BRAIN center. Neurorehabilitation Gamification and Neuroengineering research.

Engineering Intern (Human Health and Performance) - NASA Johnson Space Center

Supported the Human Physiology, Performance, Protection & Operations (H-3PO) Laboratory, part of the space suit & exploration operations teams. H-3PO data and software, Raspberry Pi development for spacesuit Helmet Mounted Display (HMD) for NASA Neutral Buoyancy Laboratory (NBL). This project will help enhance astronaut situational awareness during underwater EVA.

Computer Scientist Intern - NASA Goddard Space Flight Center

Assisted in developing and testing data sharing and collaboration tools. Part of the Amazon Web services JupyterHub testing team (HelioAnalytics team) for the Heliophysics division.

PROJECTS

MediTools – Medical Education Powered by LLMs

The University of Chicago & Northwestern Medicine

Leveraging large language models, this research develops MediTools. A prototype application to enhance medical education through interactive clinical simulations and tools.

Dec 2024 – Present

Jan 2024 - Aug 2024

Aug 2022 - Dec 2022

May 2023 - Aug 2023

May 2021 - Aug 2021

A comparative Study on Neurorehabilitation Gamification: Measuring Engagement, Motivation, and Perceived Challenge University of Houston

The focus of the study is the development and evaluation of a new neurorehabilitation game intended to increase participants' engagement, motivation, and challenge. This study will offer a new approach/tool to manage abnormal muscle synergies in stroke patients using gamified interventions.

Facilitating Heliophysics Data Discovery with Cloud Collaboration: Development for the HSO Connect Program NASA Goddard Space Flight Center

HSO (Heliophysics System Observatory) Connect is a program that was established and funded by NASA headquarters to support integrating science activities for a virtual environment called the Heliophysics System Observatory. The goal of the program is to link the Heliophysics community together and establish a connection for collaboration and data sharing. Through this project we hope to bridge the gap between Heliophysics and other disciplines and alleviate the struggles Scientists face to share and locate data. This project was presented at the 2021 American Geophysical Union (AGU) fall meeting in New Orleans, LA. AGU is considered to be the largest international meeting dedicated to the advancement of earth and space sciences in the world.

SKILLS

Python | Java | R | SQL | Data Analysis | Large Language Models | Machine Learning | Jupyter Notebook | Research | Arabic (proficient) | Leadership | Problem Solving | Organization | Time Management | Communication | Adaptability | Teamwork