Nimra Idris Siddiqui

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https://github.com/nimrausa

OBJECTIVE

Seeking an opportunity to enroll and work as software engineer intern, that offers growth and development based on proven ability and to make a positive contribution through my knowledge, skills, and commitment to continually strive for perfection.

SKILLS

· **Proficiency with data structures and algorithms**, skilled in critical thinking, logic, and high math.
· **Programming Languages**: (Proficient) Java, (Familiar) Python, C++, C#, SQL
· **Software:** MATLAB, LogiISIM, ModelSim

WORK EXPERIENCE

Graduate Assistant | Department of Computer Science, Youngstown, OH, USA   **Sept 2022 – Present**
·To design and develop an accessible computing curriculum for students with autism spectrum disorders
·To implement the computing curriculum at local middle school(s)
·To improve the learning experience and give proper access to everyone in computer science education.

Graduate Assistant | Department of Electrical Engineering, Youngstown, OH, USA   **Jan 2022 – March 2022**
·Working in the Digital Circuit lab as a teaching assistant and doing project on analog device to control it with Keil software
·Managing all the operations and departments software (MATLAB, LogiISIM, ModelSim).

Summer Internship | University of Malaysia.   **June 2019 – July 2019**
·Designed assembly and product component models using CATIA V5 design software.
·Executed in the Power Electronics and Renewable Energy Laboratory under the valuable guidance & supervision of Professor DR SAAD MEKHILEF.
Key Tech Stack – CATIA V5, AutoCAD, Tecplot (CFD simulation), ANSYS (Fluent), MS Office, DSP, DSO

EDUCATION

Youngstown State University, Youngstown, Ohio, USA   **GPA: 4/4**
Major in Computing and Information System   **Expected Graduation: Dec 2023**
Aligarh Muslim University, Aligarh, UP, India   **GPA: 4/4**
Bachelor of Technology in Engineering   **Undergrad: Aug 2022**

PUBLICATION

·**Artificial Jellyfish Search Algorithm-Based Selective Harmonic Elimination in a Cascaded H-Bridge Multilevel Inverter.**
https://www.mdpi.com/2079-9292/10/19/2402 **MDPI Publication**: Selective harmonic elimination in a Cascade H-Bridge Multilevel Inverter (CHB-MLI) by using new Metaheuristic optimization algorithms that is inspired by the behaviour of jellyfish in the ocean.

· **Performance Evaluation of Multilevel DC-AC Converter To Interface EV Battery For V2H Application.**
https://ieeexplore.ieee.org/document/9654685 **IEEE North America Power Symposium Texas A & M**: Two SCMLI topologies have been studied for V2H applications.

RELEVANT COURSEWORK

Data Structure and Algorithm in Java | Machine Learning | Cloud computing and Big data| Advance Database Design and Administration |
Principle of computer Programming | Computer Arithmetic| Modern Electric Drives| Advance Engineering Mathematics |

PERSONAL PROJECTS

· **Multiple disease prediction webapp**
https://nimrausa-public-multiple-di-multiple-diesease-prediction-tnr77l.streamlitapp.com/
· A person can check whether he/ she has diabetes, heart disease, or Parkinson's prediction by just putting the values in the app and checking the result. The data for a different set of results are taken from Kaggle so the person can get accurate results.

· **Breast Cancer Classification with Neural Network**: · Build a simple Neural Network (NN) with TensorFlow and Keras in Python.

· **Customer Segmentation using K-Means Clustering:** Build the Customer Segmentation system using K-Means Clustering.

· **MNIST Handwritten digit classification using deep learning:** Build a Neural Network (NN) with TensorFlow and Keras in Python to recognize the images.

· **Credit Card Fraud Detection using Machine Learning in Python:** Build a Credit card Fraud Detection system using Machine Learning with Python by using the Logistic Regression model.

VOLUNTEERING WORK

Technical coordinator and marketing manager, AMU Roboclub   **June 2019-July 2019**
·It is adherence to the curriculum, teamwork interaction and importantly project developments.
HOPE FOUNDATION: Hope Foundation Trust is working for the Social, Economic and Educational upliftment of minorities and downtrodden people of India. I am working as an active volunteer for assistance and contribution toward the noble cause.