# Nimra Idris Siddiqui

Email | Outlook | **Cell**: 330.881.2753| LinkedIn│GitHub | Personal Website

---

## 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 algorithms and data structures**
· **Programming Languages:** Java, Python, 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)
· And to evaluate the effectiveness of the accessible

**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.