

# AASHER AKHLAQUE

• Ann Arbor, MI • [aasherak@umich.edu](mailto:aasherak@umich.edu) • <https://aasherakhlaque.me> • <https://github.com/aasherak>

## EDUCATION

University of Michigan, Ann Arbor, MI

September 2019 - May 2023

- Bachelor of Science in **Computer Science** and **Data Science**, GPA: **3.79/4.00**
- University Honors List 2019, 2020
- Relevant Coursework: Data Structures and Algorithms, Multivariable and Vector Calc, Discrete Math, Foundations of Computer Science, Probability Stats, Computer Science Pragmatics

## PROJECT EXPERIENCE

Digital M Planner, Mobile App Development

August 2020 - Present

- Developed an app using **Flutter/Dart** to provide UofM students with services including note taking, task reminders, and scheduling with calendars already containing important dates provided by UofM.
- Tested and fixed bugs to increase robustness as well as to increase reliability to allow other universities to adopt a personalized version by providing their important dates and university logo.

U of M Major Audit, Full Stack Web Development

July 2020 - Present

- Developed an online web application that provides students with interactive visualizations of their progress in any major based on the courses they have already taken and/or will take.
- Used **SQL** to assemble a database with details of 4600 courses offered by LSA by web scraping with **Python**.
- Worked on frontend development to provide interactive visualizations using **React.js**
- Formulated algorithms that provide students with personalized future schedules that satisfy all requirements for a specific major based on the student's academic interests.
- Now working on backend and API in a way to allow other colleges to adopt the app with minimal work.

Piazza Posts Identifier, Machine Learning

April 2020

- Wrote a program in **C++** to automatically classify students' posts on Piazza using NLP and ML techniques based on the Multi-Variate Bernoulli Naive Bayes Classifier model.

Brick Car Racing and Space Invaders, Game Development with Arduino

December 2019

- Designed and implemented two games in **C++** with another student using OOP approaches.
- Assembled working interactive arcade versions using potentiometers, LCD display and the Arduino board.

## WORK EXPERIENCE

Michigan Hyperloop, Ann Arbor, Michigan

September 2019 - December 2019

Controls Engineer

- Developed code that allows autonomous operation of the transport pod at low and high speeds during different stages of the run.
- Created an interface for data acquisition, converted analog data from pod's test run to digital for further analysis

Sheikh Zayed Medical Health and Research Complex, Lahore, Pakistan

July 2018 - August 2018

Research Assistant

- Analyzed and summarized the statistical findings from researches regarding spread of Autism, relationship between betel leaf and lung cancer, and tobacco smoking under Dr. Muhammad Zaeem Khalid. Presented data in easy to understand forms using **MATLAB**.

## LEADERSHIP

Coalition of Pakistani Students US

May 2020 – Present

Database Administrator

- Responsible for planning, collecting, cleaning, and storing the data from members of the organization.
- In charge of managing the Database Committee.
- Designed and developed the website for the org: <https://pakuscoalition.org> using **HTML**, **CSS** and **JavaScript**.

## SKILLS AND AWARDS

- **Software:** C++, Python, JavaScript, SQL, MATLAB, React, Flutter, HTML5, CSS3
- **Spoken languages:** English, Hindi, Urdu, Punjabi, Arabic
- **Top in the World Distinction** in Cambridge International Mathematics
- **Top 10 in Pakistan** in NMTC (USA Math Olympiad equivalent)