

# AASHER AKHLAQUE

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## EDUCATION

**University of Michigan**, Ann Arbor, MI *September 2019 - May 2023*  
B.S in Computer Science, B.S in Data Science, Minor in Math, Philosophy *GPA: 3.79/4.00*

### Relevant Coursework:

Programming and Data Structures, Multivariable and Vector Calculus, Discrete Mathematics, Microeconomics, Macroeconomics, Critical Thinking

## PROJECT EXPERIENCE

**Piazza Posts Identifier** *April 2020*  
*Machine Learning*

- Wrote a program that uses natural language processing and machine learning techniques to automatically identify the subject of posts from students on Piazza, a forum where students and instructors can interact

**Euchre Simulator** *February 2020*  
*Artificial Intelligence*

- Successfully coded a simulator for Euchre that can be played by a human, a computer player that follows a strategy, or a mix of the two.
- Devised different strategies the computer player can follow to make the game more competitive, difficult, and interesting.

**Ohh1** *October 2019*  
*Logic and Puzzle Game*

- Programmed and developed a version of the Ohh1 puzzle game using C++.
- Consisted of levels from 3x3 to 8x8 boards satisfying all the rules of the official Ohh1 game.

**Space Invaders, and Brick Car Racing** *December 2019*  
*Arduino*

- Designed and implemented the two games using Arduino UNO with one other student.
- Assembled working interactive arcade games using potentiometers, LCD display and the Arduino board, and refined the code by 2100 bytes to increase the efficiency of the game.

## WORK EXPERIENCE

**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

**Lahore Grammar School**, Johar Town, Lahore, Pakistan *August 2017 – May 2019*

- Executive Council Abdus Salam Science Society, and LGS JT Mathematics Society
- Organized and supervised national level Science Olympiad, MUN, and Sportsfest, hosting students from all over Pakistan. Promoted the events in different schools all over the city. Gathered 600 students and \$8000 in each event.
- Served as a prefect for 1500 students. In charge of maintaining discipline, enforcing rules and obligations, and liaison between the student body and administration.

## SKILLS

**Software:** C++, Python, Arduino, HTML, CSS, JavaScript **Languages:** English, Urdu, Punjabi, Arabic

## AWARDS

**Top in the World Distinction** in Cambridge International O Level Mathematics *June 2017*  
**Distinction** in Euclid International Math Contest hosted by Uni of Waterloo, Canada *January 2018*  
**Top 10 in Pakistan** in National Math Talent Contest (**USAMO** equivalent) *August 2018*  
**Top 5 from Pakistan** invited to Iran for training for **International Math Olympiad** *December 2018*