Aitzaz Munir Shaikh

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EDUCATION

Cornell University, College of Arts and Sciences   **Ithaca, New York**
B.A. in Computer Science and Mathematical Physics (dual major)   *Expected Graduation, May 2027*
- o **Concentrations:** Machine Learning, Artificial Intelligence, Modelling
- o **Related Coursework:** Functional Programming, Data Structures & Algorithms, Object-Oriented Programming, Discrete Structures, Math Modelling, Multivariable Calculus, Linear Algebra, Electromagnetism, Mechanics

EXPERIENCE

Mage Data   **New York, New York**
Software Developer Intern   *May 2024 - Present*
- Calculated re-identification risks through k-anonymity, l-diversity, t-closeness using multiple python libraries
- Created a python script that displays users risk metrics and provides suggestions for safer data-masking functions
- Implemented machine learning algorithms to find optimal k-anonymity value to minimize information-loss and maximize security gain during masking

Systems Limited   **Karachi, Pakistan**
Software Engineering Intern   *Dec 2023 - Jan 2024*
- Assisted change of ERP system of K-Electric from SAP ECC to SAP s/4 Hana
- Built a screensaver using Powerpoint for employee's computers which displays the project's timeline and progress
- Filtered and sorted data using tools in excel such as Gantt charts

Punjab Police Research Department   **Lahore, Pakistan**
Data Analytics Intern   *May 2022 - August 2022*
- Analyzed 4906 records of child abuse cases to make predictions of vulnerable communities of child abuse
- Charted paradigms and used trend-lines to observe relationships between different variables
- Implemented statistical algorithms such as k-means clustering and used sampling to generalize results to the province

International Mathematical Olympiad 2023   **Lahore, Pakistan**
Training camp participant   *Nov 2022 - Jan 2023*
- Among the 50 selected after placing top in Pakistan in the national stages in 2021 and 2022
- Enhanced problem-solving knowledge and skill in discrete areas of mathematics
- Worked in a team in order to find trivial solutions to problems requiring intuitive thought

PROJECTS

ChaiOrSleep   **New York, New York**
Personal   *May 2024-June 2024*
- Built an app using Swift that informs users of how much chai they should drink based on their sleep cycles
- Trained a machine learning model through Create ML using regression analysis and used Core ML to feed data into the app
- Connected Core ML model to SwiftUI application to make predictions from the trained ML model

Game: Catapult Launch   `**New York, New York**
Personal   *Dec 2023 - Jan 2024*
- Coded a game in python in which user launches projectile to hit target employing concepts of object-oriented programming
- Employed SUVAT equations in sync with computer frames to govern motion of projectile after launch

HONORS AND AWARDS

Top 50 in National Math Talent Contest 2021 & 2022 • Silver Medalist in South-East Asian Mathematical Olympiad (SEAMO) 2021 • Merit in SEAMO 2022 Champions Division • Distinction in UWaterloo Euclid Contest 2022 • 1st globally in International Academic Marathon's Math module • Bronze Honor in International Youth Math Contest 2020

SKILLS

Programming: Java, Python, JavaScript, HTML, CSS, SQL, Swift (iOS)
Tools: IntelliJ, Pulsar, Git, Excel, Powerpoint, Office