Rohma Khan

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https://rohma-khan.github.io/rohma/

EDUCATION

Brooklyn College, City University of New York   Brooklyn, NY
Bachelor of Science   May 2020
Major*: Physics; **Minor**: Computer Science and Mathematics   GPA: 3.77
Awards:Presidential Scholarship 2015-2019, Sam Schwartz Award for achievement in physics in 2018, Melba Phillips Prize in 2019, Upsilon Pi Epsilon nominated in 2019.
Relevant Coursework: Atomic and Quantum Mechanics 1&2, Data Structures, Computer Architecture, Cryptography and Cryptanalysis, Discrete Structures, Electrical Circuits, Introduction to Hardware & Algorithms of Quantum Computing, Linear Algebra, Materials for Energy Conversion and Storage, Ordinary Differential Equations, Partial Differential Equations, Statistics and Probability, Theoretical Physics

TECHNICAL SKILLS

- **Computer Programming Languages:** Python, Java, Qiskit, HTML, Javascript
- **Computer**: Git, Microsoft Suit, Google Suit, Windows and Mac computer software
- **Languages**: Urdu and Hindi

EXPERIENCE

CUNY Brooklyn College -- Non-Teaching Adjunct   New York, NY | Spring 2021
- Taught 3 supplemental classes a week to two different introductions to Java sections.
- Debugged students code, answered questions and assisted the Professor with problems as they arose.

CUNY Brooklyn College -- Physics Lab, Research Assistant   New York, NY | Summer 2020
- Researched, created, and wrote procedures for creation of gas hydrates to be applied once the lab opens.
- Mentored two high school students taking part in a College Now program in the laboratory.

RAMMP REU -- Scholar   New York, NY | Summer 2019
- Learned graph theory and theoretical, algorithmic, and statistical methods for analyzing complex networks.
- Used python to analyze graphs and coded functions to perform statistical analysis on various graphs.
- Researched topics in Combinatorics and Graph Theory and wrote a paper in a group of 4 with mentor Professor Kingan on our result.
- Created a poster, presentation and gave talks on the results at various math conferences.

Data For Good -- Intern   CUNY Brooklyn College | Spring 2019
- Analyzed a large data set from NYC Open Data using statistics and probability and graphically represented findings in charts and tables to convey results.

Metroplus Health Plan -- Intern, Provider Relations Department   New York, NY
Summer 2018, 2017, 2016
- Communicated with thousands of providers over the phone to update information in the computer system and solve problems that arose.
- Recredentialed hundreds of providers in time for monthly meetings.

PROJECTS

Choropleth Map   September 2020
Used python to analyze 2016 presidential election results and created a map using geoviews, and pandas packages.
ParTeaTime — Hack at Home   May 2020
Worked with a team of 4 to create a social networking platform centered around tea. Applied React.js to front end.
Decrypter   Fall 2019
Used Java, Python to encode, decode, encrypt and decrypt messages using a variety of cryptographic methods.

ACTIVITIES AND LEADERSHIP

- Secretary of Computer Science Club   2019-2020
- Planned Hack Brooklyn, Brooklyn College's first hackathon with a team of students.   Spring 2020
- Gave talk on centrality measures in Line Graphs at NYC Regional Math Alliance Conference   Fall 2019
- Moderated the Technology, Engineering and Math Career Panel at Brooklyn College   Fall 2019
- Member of Putnam Club, took Putnam exam 2019