Permanent Address: 5 Stacy Court Shirley, NY 11967 ufkhan@emory.edu (631) 294-2073

EDUCATION

Emory University, Atlanta, GA

Bachelor of Arts in Computer Science with a Physics Minor

Computing Skills: Java, Python, SQL, C, MATLAB, R, x86 Assembly (in order of most to least used)

Relevant Coursework: Introduction to Computer Science I and II, Discrete Structures, Data Structures and Algorithms, Assembly Programming, Programming Languages, Database Systems, Data Mining, Theory of Computing, Digital Electronics, Calculus I and II, Linear Algebra

RESEARCH AND TECHNOLOGY EXPERIENCE

Emory University Department of Computational Neuroscience

Atlanta, GA

Researcher

February 2017 – February 2018

- Wrote MATLAB code for conducting a Mutual Information analysis of the connection between neural signals and motor planning in Rhesus Monkeys
- Designed and presented a scientific poster for a research conference to communicate the goals, methods, and results of our study
- Principle Investigators: Dr. Sam Sober and Dr. Ilya Nemenman

Emory Development and Alumni Relations

Atlanta, GA

Technical Services Intern

January 2017 - May 2017

- Organize and maintain computer equipment and other hardware to ensure proper functionality for conducting business tasks and conferences
- Regularly conduct software check-ups and installation to keep systems up to date

Emory University Department of Physics

Atlanta, GA

Research Assistant

September 2015- June 2016

- Utilized the Python programming language to create a computational model for studying memorybased behavior in animals
- Engaged in weekly seminars studying Reinforcement Learning and Motor Learning
- Principle Investigator: Dr. Ilya Nemenman

Brookhaven National Laboratory

Upton, NY

Summer Research Assistant

June 2014 – August 2015

- Used the Python programming language to design a communication feed between two different microprocessors for the collection, storage, and uploading of cosmic ray data
- Used the R programming language to analyze time-based trends in collected data
- Principal Investigator: Dr. Helio Takai, Department of Physics

LEADERSHIP

Emory University: Ben Pius Mock Trial

Atlanta, GA

Vice-President

September 2015 – Present

- Lead team of thirty students, committing 20-25 hours weekly in preparation and execution of legal case presentations for nationwide competitions, including the national championship tournament
- Clearly communicated and presented complex legal and scientific concepts to everyday people
- Provided logistical planning and support for thirty students traveling across the nation for competitions as well as running a conference for two hundred competitors

ADDITIONAL SKILLS AND INTERESTS

Languages: Fluent in English, conversational in Urdu

Interests: Reading, volunteering, Magic the Gathering, logic puzzles, strategy gaming, hiking, public speaking, traveling