Ali Siddiqi

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Education

University of Illinois at Chicago *December 2020*

Bachelor of Science, Computer Science

-GPA: 3.94/4.0

-Relevant Coursework: Data Structures, Algorithms, Abstract Linear Algebra, Discrete Mathematics, Statistics, Artificial Intelligence, Machine Learning, Data Science, Natural Language Processing

Experience

Northrop Grumman Corporation *Summer 2020*

Software Engineering Intern

-Worked with the Universal Digital Simulation Model (UDSM) team to improve and add features to the existing program

-Developed a GUI automation framework from scratch to automate program testing, capable of automating 80% of requirement tests (up from 0).

-Created HTTP agent to interface between automation framework and Robot framework in Jenkins tests

-Defined a standardized naming convention which is now part of the internal project documentation

UIC Mathematical Computing Laboratory *Spring 2020*

Undergraduate Researcher

-Worked with a team of other students and a professor to develop software to calculate states of games according to combinatorial game theory rules.

-Designed new type of combinatorial game based off domineering

UIC Minority Engineering Recruitment and Retention Program *Fall 2019*

Computer Science Tutor

-Teaching students to learn discrete mathematics, problem solving skills, and fundamentals of computational theory

Projects

Intellivast *2020 (Java, Python)*

- Worked with team of 4 at HackIllinois to develop financial prediction program
- Implemented spring-mass modeling of stocks using physics laws, conducting FFT's and conducting low pass filters on data
- Improved existing model by combining NLP sentiment analysis of financial news articles
- Achieved 18% returns in 6 month period during backtesting

CAN Bus Hacking *2018 (Graph analysis)*

-Built a CAN Bus analyzing tool (CANalyze) that uses the SocketCAN open source CAN interfacing tool to monitor, record, and play CAN signals through the OBD-II port in automobiles

-Isolated signal for tachometer and charted values to interpret signal bytes' values

Skills/Certifications

Languages: C/C++, Python, Java, C#

Tools: Windows, Linux, Robot Framework, Windows Automation, Pandas, Scikit-learn

Active Secret Clearance *(issued by Department of Defense)*

Activities

UIC Fencing Club

ACM

LUG