Sami Beig

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SKILLS

- Programming languages: C++, Python, SQL, Bash, JavaScript
- Microsoft Word and PowerPoint Proficient

EDUCATION

CUNY – HUNTER COLLEGE

Bachelor of Art in Computer Science - Expected Graduation: May 2020

Relevant Courses Taken:

- •Software Analysis & Design I & II
- •Calculus I & II
- •Computer Theory
- •Discrete Mathematics
- • Computer Architecture I & II
- • Applied Statistics
- • Operating Systems
- • Networking

WORK EXPERIENCE

NYC DEPARTMENT OF EDUCATION

STEM Instructor, June 2018 – August 2018

- Educated students on how to use power tools, basics of circuitry and breadboards, and Arduino boards.
- Worked alongside NYC Department of Education certified teachers to make lesson plans catered to student progress.
- Assisted students in weekly projects based on skills taught in class.

CUNY TUTOR CORPS

Math/Computer Science Tutor, August 2017 – June 2018

- Administered academic guidance and tutoring in math and computer science to middle school children, ranging from Honors to Special Education students
- Facilitated group discussions on mathematical education and applied feedback to individualized lesson plans.
- Assisted students in acquiring a better understanding of targeted weak areas within a subject or a subject as a whole.

PROJECTS

- Networking: Finding the Shortest Path between End Hosts
    - Using GENI (cloud testbed) to allocate resources from a specific site, a user can remotely access any end host and be able to tell how far it is from another end host.
    - Implemented the Bellman-Ford algorithm in this project using C++
    - Created a script using Bash that prompts a user to input which end host they wish to access. The script would output a command that the user can use to access the end node.
- Operating System: CPU Simulation
    - Will prompt the user to input commands in order to simulate how a CPU functions.
    - Sample commands will have a user create a process and it will automatically be put into the CPU queue. If the user decides to create another process for the CPU to execute, depending on the priority, the new process will preempt the current process.

- Showcases knowledge of classes, inheritance and Object-Oriented Programming in C++