

SUMYA HOQUE

678.856.9019 | sumyahoque2012@gmail.com | github.com/hoquesumya

Education

Columbia University

New York, NY

B.A. in Computer Science

Expected Graduation: May 2024

- **GPA:** 3.16/4.0
- **Courseworks:** Advanced Programming in C

Borough of Manhattan Community College

A.S. in Computer Science

August 2019 - May 2021

- **GPA:** 3.98/4.0
- **Courseworks:** Advanced Programming Technique in C++ (Honors), Data Structures (Honors)
- **Honors:** Phi Theta Kappa Honor Society, Dean's List (Four Consecutive Terms), NSF Scholarship recipient

Skills

Languages : C, C++, Javascript (React), Python, Java
Technologies: MongoDB, MySQL, ReactJS, AWS, IBM Watson Assistant, Bash, Git
Certificates : AWS Alexa Badge, IBM Data Science Tool

Experience

Mentor - Success and Innovation Lab

September 2021- June 2022

Borough of Manhattan Community College

New York, NY

- Assisted in creating assessments in C++ and Python and grading quizzes and assignments for 15-16 students
- Elevated students' coding performance by 10% by teaching and mentoring them in C++ and Python

Teaching Assistant - High School Outreach Program

New York, NY

Borough of Manhattan Community College

March 2022 - June 2022

- Taught 30-40 high school students about programming cozmo robot in calypso software
- Assessed students' assignments to check quality and completeness and assigned grades
- Enhanced students' interests in robotics by 20%

Academic Researcher

New York, NY

CUNY Research Scholar Program

August 2020 - May 2021

COVID-19 AI mental Health Assistant

- Designed a humanoid assistive robot (NAO) to deliver Cognitive Behavioral Therapy Assistance to nursing home elderly populations
- Designed an alternate Alexa virtual assistant using Node.js and MongoDB database to provide mental health assistance to users
- Reduced anxiety by 2% of 5-6 elderly people by receiving CBT therapy assistance from NAO robot

Projects

HTTP Web Server

April 2022 - May 2022

- Programmed an HTTP Web server in C that can serve static contents such as HTML, stylesheets, images, and fonts in a secure way

- Implemented a three-tier architecture that allows the web server to server dynamic contents by interacting with a separate database server

Android Mental Health App

October 2020 - November 2020

BMCC HACK - A - Thon

- Designed and built an Android application using Java and android studio to provide mental health assistance to elderlies
- Deployed IBM chatbot - integrated with Watson Speech to text in the android application to provide virtual assistance to users.

6 feet Distance Game

April 2020 - May 2020

- Designed and developed a game based on the COVID-19 6 feet distance rule using the SFML tool and C++ OOP features

Leadership Activities

BMCC Computer Programming Club

New York, NY

Vice President

January 2021 - May 2021

- Supervised and organized meetings, events, and workshops
- Built stakeholder relationships with technologies professionals

Publication

Sumya Hoque, Mohammad Azhar, and Stacey Rodriguez. COVID-19 Mental Health AI and Robot Assistant. SIGCSE '21: Proceedings of the 52nd ACM Technical Symposium on Computer Science Education, March 2021, Pages 1385.