MUKUT CHOWDHURY

Queens, New York | (646) 577-7495 | mc8100@nyu.edu | LinkedIn

EDUCATION

New York University, Tandon School of Engineering   **Brooklyn, NY**

Bachelor of Science in Computer Engineering   *September 2020 - May 2024*

SKILLS AND INTERESTS

Software and Programming: C++, Python/Python Flask, C, SQL, Verilog, Assembly, Microsoft Office (Word, Excel), MATLAB , Java

Soft Skills: Communication, Teamwork, Problem-solving, Time Management, Leadership, Adaptability, Initiative, Ethics

Relevant Coursework: Object Oriented Programming, Computer Architecture, Data Structure & Algorithms, Database

PROFESSIONAL EXPERIENCE

Quality Assurance Intern   *July 2023 - August 2023*

NYC Department of Consumer and Worker Protection (DCWP), *Manhattan, NY*

- Conducted thorough testing and validation of **50+** consumer protection applications, ensuring **98%** bug detection rate and adherence to regulatory standards
- Collaborated with a cross-functional team to execute **20+** test cases weekly, resulting in **15%** reduction in application errors and enhancing overall user experience
- Led QA efforts with meticulous tracking **1000+** defects in JIRA, achieving **20%** faster issue resolution. Utilized Selenium in Java to automate **30+** test cases, bolstering testing accuracy

Front-Desk Technician   *August 2022 - May 2023*

New York University (Tisch), *Manhattan, NY*

- Reduced turn-around time by **50%** within a three-month period by providing comprehensive support for hardware and software issues, effectively resolving technical problems
- Maintained the company's website, tracking over **10 to 15** daily intakes from clients using ServiceLink software

General Manager   J*uly 2019 - June 2022*

Bobby-Tariq Learning Center, *Jackson Heights, NY*

- Supervised a team of **3+** managers**, 15+** employees, and **10+** interns, ensuring efficient and effective daily operations
- Improved the customer experience by decreasing parent/consumer wait time for teachers by **60%** over six months

ACADEMIC PROJECTS

Simulator, Computer Architecture   *January 2023 - May 2023*

New York University (Tandon), *Brooklyn, NY*

- Developed E20 simulator in Python, replicating E20 processor behavior for executing machine language programs
- Initialized processor state (program counter, register, memory) and interpreted instructions accurately to update the state
- Thoroughly tested using provided and custom machine language files, ensuring reliability and error-free execution

Assembler, Computer Architecture   *January 2023 - May 2023*

New York University (Tandon), *Brooklyn, NY*

- Developed a robust E20 assembler in Python, showcasing expertise in software design and implementation
- Utilized bitwise operators and bitmasks to manipulate individual bits within numbers, ensuring efficient and accurate conversion of assembly code to machine code

Air Ticket Reservation System, Database   *January 2023 - May 2023*

New York University (Tandon), *Brooklyn, NY*

- Developed a dynamic and interactive web application using Flask, a Python web framework
- Managed both the front-end and back-end of the project, ensuring seamless integration and functionality
- Demonstrated proficiency in utilizing Flask's capabilities to create efficient and maintainable web development solutions