

# BEZA NIGATU

◆ NEW YORK, NY / SILVER SPRING, MD ☎ (240) 604-3257 ✉ BEZAN329@GMAIL.COM

## EDUCATION

Anticipated Graduation: MAY 2024

### **New York Institute of Technology (NYIT):**

B.S. Computer Science, Honors Program - *College of Engineering and Computing Science*

Presidential Honor List

## JOB EXPERIENCE

### **Supplemental Instructor, NYIT- New York, NY**

SPRING 2022

For the course, "Digital Logic & Design/Computer Organization" (CSCI 135/EENG 125/EENG 505)

- Designed 10 supplemental lectures and lesson plans to enhance the students' course mastery.
- Implemented tools we learned with application of sequencing/if-else/calculations, and structured organization techniques to interpret information more simply.
- Created practice problems and led weekly discussions on basic circuit fundamentals of digital computers through logic gates, Boolean and relational algebra, and Karnaugh Map grouping to develop better pattern recognition.

### **Research Assistant, National Science Foundation (NSF) - New York, NY**

JUNE 2021 - JUNE 2023

- Our research team uses "Holographic Duality" to create analytical solutions on how elementary particles interact in an atom's nucleus. With the help of Holography, Quantum Field Theory, and mathematics, we translate between String Theory and "our world" of particle physics to find solutions describing their physical system. Internship, NSF Award #PHY-2014025.
- LaTeX Software to program documentation of research progress and corrections.
- Mathematica and Python programming used to gather data and interpret numerical solutions.

### **Resident Assistant, Riverside Hall and 1760 Third- New York, NY**

MAY 2022 - MAY 2023

- On-call for emergency incidents as the primary responder.
- Trained on suicide prevention, Title IX, and conflict management.
- Community engagement by creating 18 events and leading building tours.
- Co-Writer on monthly newsletter for campus and local information.

## COURSE PROJECTS

Data Structures (CSCI 260)	Translation from Morse Code to English with a Binary Tree structure, implemented with stack.	Java (Eclipse IDE)
Operating Systems (CSCI 330)	CPU Scheduling Project with Round Robin algorithm; Linux Installment	Java; Linux OS
Programming Language Concepts (CSCI 318)	Image Steganography, where a message is encoded onto the RGB values of a PNG image.	Python (PyCharm IDE)
Self Projects	Chemistry Solver; Locally Hosted Website	C++ (Xcode IDE); HTML5/CSS

## EXTRACURRICULARS

SEPTEMBER 2022 - PRESENT

### **Executive Board, Black Student Union- New York Institute of Technology, NY**

- Initiated inclusive conversations on race, gained a new perspective on localized social justice issues and its multifaceted qualities.
- Maintained consistent line of communication between members and business offices to propose budgets.