

# Nuha Maharoor

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## Education

University of Maryland, Baltimore County (UMBC)

GPA: 3.6 | President's Honors List, 3 Semesters (2020)

B.S. in Computer Science | Minor in Information Systems

Baltimore, MD

2018 – exp. 2022

### Relevant Coursework (2018 – Present):

- Data Structures
- Operating Systems
- Software Engineering I
- Statistics for Engineers
- Computer Architecture
- Human-Computer Interaction
- Artificial Intelligence
- Management Science

## Key Skills

**Languages:** C++, Python, Java, HTML, CSS, x86 Assembly (NASM)

**Tools:** MS Visual Studio, NetBeans, Eclipse, Xilinx, GitHub, MATLAB, Emacs, Putty, Virtual Box, Adobe Creative Suite

**Nontechnical:** Creativity, Collaboration, Problem Solving, Entrepreneurship, Time Management

## Experience

### Undergraduate Teaching Fellow

University of Maryland, Baltimore County

Baltimore, MD

2020 – Present

- Holds virtual office hours for students in Computer Science I, Computer Science II, and Data Structures (Python, C++).
- Tutors students, providing them with meaningful and constructive feedback on their code.

### ASPIRE Intern

Johns Hopkins University Applied Physics Laboratory

Laurel, MD

2017 – 2018

Assisted in the development of network routing models within cloud infrastructure and creation of visual representation of the models using CORE (Common Open Research Emulator) software, for tactical use.

### Graphic Designer & Vector Artist

Self-Employed

Baltimore, MD

2016 – Present

- Opened an online freelance business to sell custom art to be used for logos, apparel, etc.
- Collaborated with clients to create designs to their specifications using Adobe Creative Cloud services
- Marketed the business using social media tools such as Instagram.

## Accomplishments

### Grand Prize Winner – Hackathon for Social Justice

National STEM Collaborative - Laurel, MD

- Won the first place grand prize for designing a mobile app prototype to combat implicit bias in the workplace.
- Won a scholarship to pitch the app to an audience of potential sponsors at the 2nd Annual Women of Color
- STEM Entrepreneurship Conference in Phoenix, Arizona.
- Information about the app prototype can be found at [cgest.asu.edu/hackathon](http://cgest.asu.edu/hackathon).

## Programming Projects

### Route Optimizer | UMBC, Data Structures

Coded a program to return the most optimized bus routes given the route names, stop locations, stop earnings, and maintenance costs. The software is intended for transportation agencies to maximize profits.

### Range Average Query Calculator | UMBC, Data Structures

Coded a program using C++ that implemented two solutions for the Range Average Query problem: one using dynamic programming and one using block decomposition.

### Text Encryption | UMBC, Comp Org. & Assembly Language

Coded a menu-driven program to encrypt text messages using two substitution cyphers: shift and mirror encryption. Coded in NASM Assembly on x86-64 architecture.

### Sudoku Game & Solver | UMBC, Computer Science II

Coded a Sudoku game and solver function in C++. Features include alerted player of an incorrect move, the ability to undo a move, and the ability to auto-solve the puzzle.

## Extracurriculars

Society of Women Engineers (UMBC) | Member

2019 – Present

HackUMBC | Member

2018 – 2019

Women of Color STEM Entrepreneurship Conference | Presenter

2017