

# Nazifa Chowdhury

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## EDUCATION

### UNIVERSITY OF MARYLAND, COLLEGE PARK

B.S in Computer Science  
Minor in Statistics  
Expected Graduation: May 2019

## SKILLS

### PROGRAMMING

• Java • C • OCaml • Python • Ruby  
Prolog • MIPS • XML • HTML •  
Matlab • Swift • LabView

### SOFTWARE

• Adobe Dreamweaver • Adobe Photo-  
shop • Adobe InDesign • Adobe  
Illustrator • AutoDesk Inventor

## COURSEWORK

Computer and Network Security  
Human-Computer Interaction  
Data Structures  
Introduction to Machine Learning  
Cloud Computing using AWS  
Algorithms  
Organization of Programming Languages  
Introduction to Computer Systems  
Discrete Structures  
Object Oriented Programming I and II  
Applied Statistics and Probability I and II

## PROJECTS

### CMSC414 - SECURE LOG

May 2018 | College Park, MD

- Designed and created a secure log with a partner which included encryption and decryption of the log along with writing safe functions to use the log in C

### CMSC420 - MEESHQUEST

August 2017 - December 2017 | College Park, MD

- Project in Java that emulates MapQuest by implementing a data dictionary, spatial map, and road adjacency list.

## WORK AND RESEARCH EXPERIENCE

### MICROSOFT | *Software Engineering Intern*

May 2018 - Present | Redmond, WA

- Working on cryptography and cryptographic assets and ecosystem

### TEXTRON INC. | *Cyber Security Intern*

June 2017 - August 2017 | Fort Worth, TX

- Worked on the backend of the internal security tool written in Python to integrate a filter feature that pulls information from various intelligence sources and classifies IP's; saving the time to manually research about each IP
- Collaborated with a team of 4 analysts to analyze the enterprise network logs to detect and classify any intrusions

### TEAM VOLTAGE | *Researcher + Project Co-Author + Web Liaison*

May 2016 - Present | College Park, MD

- Collaborating with 8 other undergraduate researchers to design and conduct experiments to further the research in electrowetting display technology
- Working on a sub-team with 2 other students to conduct experiments on various materials to determine cost-efficiency of each material at the University of Maryland's Clean Room Fabrication Lab
- Wrote an extensive review of existing electrophoretic and liquid crystal display technology in comparison to potential electrowetting display technology
- Created the team website using HTML and CSS

### DISTANCE EDUCATION TECHNOLOGY AND SERVICES | *Technical Director*

August 2017 - Present | College Park, MD

- Monitor and provide distance learning services for 150 students across four different campuses
- Operate and provide technical support for video equipment that aid in course recording and teleconferencing

### FRESHMAN HONORS COLLOQUIUM: GEMS100 | *Teaching Assistant*

August 2016 - December 2016 | College Park, MD

- Taught a weekly class of 75 minutes to orient 11 new undergraduate students to the program and the university.
- Prepared lesson plans, graded assignments, and critiqued proposed research projects to guide students going into their first year research.

### GEMSTONE HONORS PROGRAM | *Technical Assistant*

June 2016 - August 2016 | College Park, MD

- Created an internal search bar and made general updates on the gemstone website throughout the summer using HTML and CSS
- Created logos and flyers for Gemstone Summer events using Adobe Photoshop

## ACTIVITIES

### TECHNICA | *Co-Executive Director*

January 2018 - Present | College Park, MD

- Co-leading a team of 70 organizers to plan and execute the largest all-women hackathon with 850+ attendees and a budget of \$195000 to foster a community of women within the technology and hacker community

### ASSOCIATION FOR WOMEN IN COMPUTING (AWC) | *Vice-President*

August 2017 - May 2018 | College Park, MD

- Assisted in leading a council of students to organize and execute events to foster a community of women in computing within the University

### BITCAMP | *Sponsorship Coordinator*

May 2016 - Present | College Park, MD

- Collaborated with a team of 6 students to contact 100+ companies raise \$195000 to fund Bitcamp 2017 and 2018 with 40+ sponsors