

JAYLA T. WILLIAMS

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

June 2018 - December 2021

Candidate for Bachelor of Science in Computer Engineering

- **Affiliations:** National Society of Black Engineers (NSBE), Institute of Electrical and Electronics Engineers (IEEE)
- **Relevant Coursework:** Programming HW/SW Systems, Data Structures and Algorithms, Computer Communications, Architecture, Systems, Concurrency, and Energy in Computation, Intro to Malware Reverse Engineering, Embedded Systems Design, Hardware Oriented Security and Trust, Intro to Computer Security

SKILLS / PERSONAL ATTRIBUTES

Programming: Java (intermediate), C++ (intermediate), MIPS Assembly (intermediate), C (intermediate), Python (intermediate), HTML (intermediate), CSS (intermediate), Intel x86 Assembly (intermediate), Javascript (beginner)

RESEARCH / PROJECTS

Georgia Institute of Technology- Senior Design

Microsoft Azure Zero Trust IoT Network Connectivity using Nordic Microprocessors **January 2021 - Present**

- Researching network based Internet of Things (IoT) attacks
- Working to implement a Microsoft Azure Zero Trust connection between the latest Nordic Semi nRF9160 LTE-M / nB-IoT microcontroller for IoT data collection and a bluetooth low energy server
- Collaborating a team to construct a technical review paper, budget, and project proposal
- Documenting attempts to break into the device using an external wireless and wired network connection

Georgia Institute of Technology- Intro to Malware Reverse Engineering

January 2021 - May 2021

- Developed a mastery of low-level software primitives and executable inspection
- Learned and applied the fundamental principles of dissecting malware using IDA Pro
- Became aware of the limitations of existing reverse engineering mechanisms and how to overcome them
- Studied the behaviors, tricks, and tactics employed by modern malware
- Engaged in critical discussion around key topics in software security and malware prevention

PROFESSIONAL EXPERIENCE / LEADERSHIP

Cisco Systems

Technical Undergraduate Intern

Remote, San, Jose, US

May 2021 - August 2021

- Used CodeceptJS to write end-to-end test cases that represent a user's actions on the site
- Reviewed UI/UX designs to derive required API and used JS coding to troubleshoot integration issues
- Learned to identify and troubleshoot common HTTP error codes

NVIDIA Corporation

Software Intern

Remote, Santa Clara, US

January 2021 - April 2021

- Used FLASK to design and implement a python backed dynamic web page
- Created seven user interfaces to improve bring-up and support for customer platforms using HTML, CSS, and Django
- Modified user interfaces based on feedback and implemented features to improve the user experience
- Developed functions to read and modify YAML files containing EndUser configuration data and session data

Georgia Institute of Technology- African American Student Union (AASU)

President

Atlanta, GA

April 2020 - April 2021

- Represent the organization at conferences, conventions, faculty or alumni meetings, and be responsible for all other external affairs
- Set the goals and vision in conjunction with the executive board for the upcoming year
- Conduct executive board meetings in order to establish and maintain the stated goals and trajectory of AASU
- Report organizational initiatives/goals to the general body

Professional References provided upon request.