

# Margie Ruffin

## CONTACT

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Senior Computer Science major determined to exceed standards set and become exemplary in information security field.

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## EDUCATION

Spelman College, Atlanta, GA – BS Computer Science

AUGUST 2016- MAY 2020

Cumulative GPA: 3.68

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## RELEVANT COURSES

- Data Structures & Theoretical Foundations of CS • Data Structures & Algorithms Analysis
- Computer Organization & Design • Programming Languages • Database Management Systems • Operating Systems
- Software Engineering • Networks & Security • Calculus I & II • Discrete Math • Statistics

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## SKILLS, PROGRAMMING LANGUAGES, & PLATFORMS

Project management and data & records management. Data analytics and research. Strong verbal, written, and team skills.

- Python •C++ •Command Line •Java •HTML/CSS •SQL •JavaScript •HTML/CSS
- IntelliJ •Firebase •MySQL

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## EXPERIENCE

**Georgia Tech Research Institute**, Atlanta, GA – Student Researcher

OCTOBER 2019 – PRESENT

- Works with GTRI Researchers on assigned projects; including one that creates a tool to exploit, study, assess known vulnerabilities in HTTP/2.
- Attends trainings, continuing educations, and shadowed employees to strengthen technical and personal skills.

**Department of Defense – Department of Army**, Washington, D.C. – *Summer Intern*

*TS- Clearance*

JUNE 2019 – PRESENT

- Worked alongside communications team to develop a Java based program to track thousands of telephone numbers, costing millions of dollars, allowing the discontinuation of inactive numbers and the savings of a substantial amount of money.
- Assisted the communications team in the upgrade of the Legacy Linux system to a new and more efficient system using bash scripting and company software.
- Attended trainings, continuing educations, and shadowed employees to strengthen technical and personal skills.

**Total Fitness Revolution** – Mableton, GA – Front Desk Associate

MARCH 2018 – PRESENT

- Works to check in gym guests, sanitize/clean workstations and gym interior, greeted gym guests with warm hospitality to make them feel welcome.
- Actively keeps up with administrative duties, such as answering phone calls and managing the gyms social media web pages.
- Sells gym membership/class packages and promoted merchandise.

**Spelman College – Department of Computer Science**, Atlanta, GA. – Teacher's Assistant

JANUARY 2018 – MAY 2018

- Attended the class once a week and had weekly meetings with the professor to understand what information the students may need help with.
- Kept assigned office hours two days a week where students could come and request help with curriculum and homework assignments.
- Helped students prepare for upcoming tests, quizzes, and major projects for the class.

## **Federal Bureau of Investigation, Houston/ Atlanta/ Dallas – Student Workforce Trainee**

*TS/SCI Clearance with Polygraph*

JUNE 2017 – MAY 2019

- Aided the Cyber Squad in daily tasks, de-obfuscated malware, wrote scripts, prepared case briefs, and shadowed Bureau Computer Scientists.
- Managed and analyzed the physical and digital records and evidence, both new and old, brought in and needed by Bureau Special Agents.
- Worked to mitigate intelligence threats, on the Counter Intel team, by assessing threat level, threat identity, and by assigning proper mitigation level.

## **Spelman College SpelBots Team, Atlanta – Captain**

FEBRUARY 2017- PRESENT

- Introduced and presented STEM career fields and related topics to underrepresented children.
- Prepared, conducted, and assisted with NAO Robots programming workshops for underrepresented children.
- Planned, secured funding/sponsorship, and directed team members for each annual Hack-A-Bot (Robotics Hack-A-Thon). A signature event started under my captaincy.

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## **PROJECTS**

### **Student Researcher – Spelman College, Atlanta**

SEPTEMBER 2019 – PRESENT

- Worked under a Spelman College professor to conduct research that tracks the type and amount of personal information that is being leaked from mobile applications to third-party websites.
- Assisted Professor with the writings of professional findings in a research paper

### **Eager\_Bot Consultant – Morehouse College, Atlanta, GA**

AUGUST 2018 – PRESENT

- Worked in conjunction with professors at Spelman and Morehouse to build a mentor based chatbot through Google's Dialogflow and several other software applications.
- Advanced several other projects including the building of a graduate school chatbot, the testing of a mobile app, and the development of project content.

### **SpelBots Team Research Leader – Spelman College, Atlanta, GA**

JANUARY 2019 – PRESENT

- Lead a research team in building an interactive storytelling program that measures 2<sup>nd</sup> grade comprehension and retention of a story delivered by a NAO robot.
- Contributed by assisting the team in the program building, curating the background research, and compiling all of the elements of the project into a cohesive research day poster and presentation.

### **Clair Booth Luce Research Fellow – Spelman College, Atlanta, GA**

SEPTEMBER 2018 – PRESENT

- Worked to develop a robotics program that measured the effectiveness of Robotic code switching, the language switching between Standard English and African American Vernacular English.
- Created five different conversation paths that related anywhere from the topic of computer science to life at Spelman College as a student.

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## **AWARDS / HONORS**

- Spelman College Research Day, 1<sup>st</sup> place (2019)
- Upsilon Pi Epsilon Honor Society Inductee (2019)
- Spelman College Boeing Scholar (2017-2020)
- Google Generations Scholar (2017)
- Spelman College Dean's List (2017- Present)
- Spelman College Honor Roll (2016)

## **LEADERSHIP POSITIONS**

- Alpha Kappa Alpha International Target Committee Chair (2017-2019)
- Spelman College Robotics Team, SpelBots, Member (2017- Present)
- Sophomore Class Council Parliamentarian (2017-2018)
- Berry Academy Executive Communications Director (2016- Present)
- Student Government Association Intern (2016- 2017)