Janiya S. Richardson

Tallahassee, FL | (850) 242-1822 | jrichardson329@gatech.edu |U.S. Citizen|linkedin.com/in/janiya-richardson

Objective

Computer Engineering and computer science dual degree engineering student with strong technical and research skills specializing in AI, microcontroller systems, and materials science. Proactive and proficient in high-pressure environments, adept at diagnosing and resolving complex programming issues, and collaborating with multi-disciplinary teams to develop innovative projects. Successful in presenting and communicating research results at symposiums and in academic papers. Seeking a research internship in the AI and robotics industry for Summer 2025.

Education

Georgia Institute of Technology | Atlanta, GA *January 2025 – Present*
Bachelor of Science in Computer Engineering Expected Graduation, December 2026
Spelman College| Atlanta, GA *August 2022 – Present*
Bachelor of Science in Computer Science, GPA 3.93 *Expected Graduation, May 2026*
Tallahassee Community College| Tallahassee, FL *August 2019 – May 2022*
Associate's degree, GPA 3.94

Skills

Programming: Java, Python, C++, C#, JavaScript, SQL, HTML/CSS
Platforms: Linux (Ubuntu)
Hardware: Raspberry Pi, Arduino
Software: GitHub, AutoCAD, Autodesk Inventor, Autodesk Fusion360, CrystalMaker, Microsoft Office Suite, Visual Studio Code
Professional Organizations: National Society for Black Engineers (NSBE), Society of Women Engineers (SWE)
Honors/Awards: Upsilon Pi Epsilon, 2024 Cisco Scholar, Spelman Living and Learning in an Interdisciplinary Networked Community of STEM (LINCS) Scholar, 2023-2024 Boeing Scholar, 2023 Grace Hopper Scholar Award, Spelman Women in STEM (WiSTEM) Scholar
Communication: Technical reports, research papers, presentations (large and small audiences)
Languages: English (fluent), Spanish (novice)

Experience

FAMU-FSU College of Engineering | Tallahassee, FL *May – August 2024*
MSIPP REU Intern
The FAMU-FSU College of Engineering is a joint engineering school for Florida A&M and Florida State universities, renowned for its cutting-edge research. The internship was funded through the Minority Serving Institution Partnership Program (MSIPP)

- Conducted in-depth research on the structural engineering of double halide lead-free perovskites, focusing on metal-doping techniques in the span of 10 weeks.
- Prepared and delivered two gate review oral presentations to communicate research progress and findings, contributing to an upcoming research paper.

Projects

AI-Driven Text Analysis and Visualization | Spelman College Physics Department *Spring 2024*
Lead Student Researcher
This individual based project aimed to generate mind maps based on themes and connections from physics textbooks using NLP algorithms.

- Developed an algorithm to derive themes from physics textbooks using pre-trained machine learning models and deep learning methods such as clustering.
- Presented results at the Spelman College Research Symposium and received 2nd place in the physics category.

Self-Guided Tour Experience| Spelman College Computer Science Department *Spring 2023*
Capstone Project Member
This team-based project aimed to create a self-guided system using a microcontroller system for users wanting to tour Spelman College.

- Assigned to work in a team of 9 students to program the Raspberry Pi microcontroller system in the span of 10 weeks; following a system engineering approach.
- Presented results at the Spelman College Research Symposium and to visiting intelligence officers

Leadership

SpelBots|Co-Captain *August 2022 – December 2024*

- Organized and facilitated volunteering events to educate underrepresented minority K-12 students about robotics.
- Developed and directed projects for students to enhance research skills through the design and construction of robots.