Alana Burrell

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EDUCATION

Georgia Institute of Technology, ***Bachelor of Science in Computer Engineering*** ***GPA**: N/A / 4.0 MAY 2025*
Spelman College, ***Bachelor of Science in Computer Science*** ***GPA**: 3.78 / 4.0 MAY 2025*
Georgia State University Perimeter College, ***Associate of Science in Engineering*** ***GPA**: 3.8 / 4.0 MAY 2019*

Certifications: Microsoft Azure Fundamentals training, Python Core Solo Learn, C++ LinkedIn Learning

PROFESSIONAL EXPERIENCE

Apple **MAY - AUG 2021/22**
Master's Software Engineering Intern | Pittsburgh, PA

- Debugged and corrected ~100 lines of code to improve unit test coverage by at least 15%.
- Utilized Swift to develop Unified Siri Tests that will improve the working efficiency of quality engineers and simplify the testing process for Apple watch Fitness + functions. ***Disclosure protected work***
- Delivered a solution using CSS, and JavaScript in React to enhance Apple's College new hire Rotational Program and simplify the recruitment process for approximately 10,000+ applicants.

Spelman College
Independent URTP Student Researcher | Atlanta, GA **Dec 2021- May 2023**

- Developed a smart mirror using Arduino.cc, Figma, Tinker CAD, Inventor, and machine learning principles.
- Trained a neural network using Python, Keras, Kaggle, and Google Colab to identify skin irregularities for darker complexions.
- Presented my findings during the Spelman College 2022 and 2023 Research Day presentation events.

XR Gaming Innovation Lab Researcher | Atlanta, GA **Oct 2021 – Dec 2022**

- Selected as finalists in competition for $100 Million research grant funding.
- Developed a virtual environment through the Oculus headset for training and educating warehouse workers on different workplace facilities to satisfy the constraints of Joe Biden's American Rescue Plan Act Build Back Better Regional Challenge. Our lab won additional $2.5M in funding to pursue a 2nd round of research.
- Utilized C/C++, Unity, and Visual Studio software to create an immersive training simulation.

LEADERSHIP ACTIVITIES

National Society of Black Engineers (NSBE) **Jun 2022 – May 2023**

- Collaborated with professional and academic partners to coordinate and manage campus events, including corporate tours, workshops, competitions, panel discussions, and donation drives.
- Assisted 3 senators in initiating, planning, executing, controlling, and closing their initiatives.
- Enforced, managed, and updated the bylaws for NSBE meetings, procedures, and chapter functionality.

Women In STEM Experience (WiSE) **JAN 2018 – Jan 2019**

- Developed 2 training workshops to improve student professionalism, teamwork, and conflict resolution skills engaging 2,500+ students across all satellite campuses.
- Assisted officers in initiating, planning, executing, controlling, and closing 4+ initiatives for 3,000+ students while teaching **Python**, **Java**, **Android Development**, and **Circuitry** concepts.

SKILLS

- **Technical Languages**: Python, C++, Java, Swift, Linux, HTML, CSS, JavaScript (React), SQL
- **Libraries**: TensorFlow, SciPy, NumPy, Pandas, Matplotlib, Keras, PyTorch, Kaggle
- **Virtual Tools**: Shapr3D, Inventor, AutoCAD, SolidWorks, Unity, Tableau, Arduino.cc, Figma, Eclipse, IntelliJ, Repl.it, XCode, VS Code, IntelliJ, Mathematica, Google Colab
- **Honors**: 2023 NSBE Regional Academic Excellence Award, Computer Science Departmental Student Honors Award, Inductance: Zeta Chapter of Upsilon Pi Epsilon, 2023 3rd Year Distinguished Engineering Student Award, 2023 Cisco Achievement Scholar, 2021/22 Apple HBCU scholar, 2021 HSBC x Executive Leadership Council scholar, Summa Cum Laude, 3x Dean's List recipient