Samuel J. Johnson

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[My Portfolio Website](#)

EDUCATION

Winthrop University   **Rock Hill, SC**
B.S. in Computer Science   *Expected Graduation, May 2025*
- o **Minor:** Mathematics
- o **GPA:** 3.57
- o **Related Coursework:** Data Structures & Algorithms, Software Engineering(I and II), Computing in C++, SQL Database Processing, Computer Architecture and Organization, Operating Systems, Web Application Design and Development, Information Security, Network Processing

University of South Carolina   **Columbia, SC**
Computer Science Major   *Fall 2021-Spring 2022*
- o **Honors College Student**
- o **GPA:** 3.74
- o **Related Coursework:** Algorithmic Design in Java(I and II), Unix/Linux Fundamentals

EXPERIENCE

University of South Carolina Lancaster   **Lancaster, SC**
IT Internship   *May 2023 – Aug 2023*
- Developed an object detection system using Python and OpenCV (cv2) to enable the Tello drone to identify and highlight over 90+ objects with bounding boxes. Implemented path-planning algorithms to autonomously navigate the drone along customizable grid-based paths by modifying code parameters.
- Gained hands-on experience in computer vision, Python programming, and robotics application development.
- Demonstrated strong problem-solving skills through autonomous system development and optimization
- Utilized version control systems (Git) to manage collaborative development efforts effectively

Sam's Club   **Fort Mill, SC**
Personal Shopper   *May 2024 – Present*
- Selected and prepared customer orders with accuracy and efficiency to ensure high satisfaction.

Believe Homecare   **Fort Mill, SC**
Personal Care Assistant   *May 2022 – Present*
- Assisted handicapped clients with daily living activities.

PROJECTS

NCBW Scholarship Application Tool   **Rock Hill, SC**
Team Member   *August 2024 – April 2025*
- Developing a scholarship application portal to simplify and enhance the process of managing, assessing, and selecting scholarship recipients.
- Features friendly UI, comprehensive reports, secure data management, and a maintainable system.

Lamprey Population Dynamics Mathematical Model   **Rock Hill, SC**
Team Lead   *January 2024*
- Designed and created three individual computerized models that examine the advantages and disadvantages of the ability of the sea lamprey species to alter its sex ratio depending on resource availability.

ACTIVITIES AND LEADERSHIP

UPE(Upsilon Pi Epsilon)   **Rock Hill, SC**
2024 Inductee   *April 2024 – Present*
- Selected for academic excellence and professional promise in computing disciplines

Association for Computing Machinery (ACM)   **Rock Hill, SC**
Student Organization Member   *August 2022 – Present*

Tapia Conference and STARS Celebration   **San Diego, California**
Selected Attendee   *September 2024*

SKILLS

Programming: Java, Python, HTML/CSS, C++, SQL, JavaScript, React.js, C#, PHP.
Tools/Technologies: VSCode, PyCharm, Eclipse, Git, Arduino Microcontrollers, Linux/Unix, Microsoft Excel, Word, PowerPoint.