

# Samuel J. Johnson

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## EDUCATION

### Winthrop University

B.S. in Computer Science

Rock Hill, SC

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

Computer Science Major

Columbia, SC

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

IT Internship

Lancaster, SC

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.
- Built responsive web interfaces with HTML, CSS, and JavaScript, leveraging Git for version control and collaboration.

### Sam's Club

Personal Shopper

Fort Mill, SC

May 2024 – Present

- Selected and prepared customer orders with accuracy and efficiency to ensure high satisfaction.

### Believe Homecare

Personal Care Assistant

Fort Mill, SC

May 2022 – Present

- Assisted handicapped clients with daily living activities.

## PROJECTS

### NCBW Scholarship Application Tool

Team Member

Rock Hill, SC

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

Team Lead

Rock Hill, SC

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)

2024 Inductee

Rock Hill, SC

April 2024 – Present

### Association for Computing Machinery (ACM)

Student Organization Member

Rock Hill, SC

August 2022 – Present

### Attended Tapia Conference and STARS Celebration

San Diego, California

September 2024

- Participated in networking events and professional development activities to promote growth within the computing community.

## 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.