

# Samuel J. Johnson

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GitHub: github.com/SJ99677 | Portfolio Website: samjohnsonportfolio.netlify.app

## EDUCATION

### Winthrop University

B.S. in Computer Science

Rock Hill, SC

Expected Graduation, May 2025

- **Minor:** Mathematics
- **GPA:** 3.57
- **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, and Network Processing.

### University of South Carolina

Computer Science Major

Columbia, SC

Fall 2021-Spring 2022

- **Honors College Student**
- **GPA:** 3.74
- **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 a drone object detection system using Python, Open CV(cv2), and path planning algorithms.
- Achieved 95% accuracy in object detection across 90+ objects with bounding boxes.
- Engineered path-planning algorithms to autonomously navigate the drone along customizable grid-based paths.

### Sam's Club

Personal Shopper

Rock Hill, SC

May 2024 – Present

### Believe Homecare

Personal Care Assistant

Fort Mill, SC

May 2022 – Present

## 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.
- Utilized Node.js, HTML, and CSS for programming, and Git for version control.
- Features friendly UI, comprehensive reports, secure data management, and a maintainable system.

### S&P 500 Machine Learning Model

Team Lead

Rock Hill, SC

April 2024

- Engineered a machine learning model to predict S&P 500 movements using Random Forest.
- Achieved 57.2% prediction accuracy.
- Utilized Python and JupyterLab.

### Lamprey Population Dynamics Mathematical Model

Team Lead

Rock Hill, SC

January 2024

## ACTIVITIES AND LEADERSHIP

### UPE(Upsilon Pi Epsilon)

2024 Inductee

Rock Hill, SC

April 2024 – Present

- Selected for academic excellence and professional promise in computing disciplines.

### Association for Computing Machinery (ACM)

Student Organization Member

Rock Hill, SC

August 2022 – Present

### Tapia Conference and STARS Celebration

Selected Attendee

San Diego, California

September 2024

## SKILLS

**Programming:** Java, Python, C++, C#, HTML, CSS, PHP, JavaScript, Node.js, React.js, MySQL.

**Tools/Technologies:** VSCode, PyCharm, Eclipse, Git, Arduino Microcontrollers, Linux/Unix, Microsoft Excel, Word, PowerPoint.