Samuel J. Johnson

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EDUCATION

Winthrop University — **Rock Hill, SC**
B.S. in Computer Science — *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 — **Columbia, SC**
Computer Science Major — *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 — **Lancaster, SC**
IT Internship — *May 2023 – Aug 2023*
- Developed a drone object detection system using Python, OpenCV (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 — **Rock Hill, SC**
Personal Shopper — *May 2024 – Present*

Believe Homecare — **Fort Mill, SC**
Personal Care Assistant — *May 2022 – Present*

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.
- 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 — **Rock Hill, SC**
Team Lead — *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 — **Rock Hill, SC**
Team Lead — *January 2024*

ACTIVITIES AND LEADERSHIP

UPE(Upsilon Pi Epsilon) — **Rock Hill, SC**
Honors Society Member — *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, C++, C#, HTML, CSS, PHP, JavaScript, MySQL, MongoDB.
Tools/Technologies: Wireshark, VSCode, Eclipse, Git, Linux/Unix, Microsoft Azure Portal, Node.js, React.js, Meteor.js