

Justin Schlag

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Education

University of South Carolina

May 2028

Bachelor of Science in Computer Engineering — GPA: 4.0

Honors and Awards: South Carolina Honors College, Dean's Scholars Award, Palmetto Fellows Scholar, South Carolina Internship Program Award, President's List

Work Experience

Naval Information Warfare Center Atlantic (NIWC), ATC Intern, Charleston, SC

May – August 2025

- Active Secret Security Clearance
- Developed and tested hardware on a lightboard system used to simulate DoD airstrip landing lights
- Performed soldering, multimeter testing, wire layout, and diagnostics for embedded systems
- Tuned and tested radio transmitters and receivers to be used in military aircraft communication systems
- Programmed and implemented EPROM chips for ETVS systems

Office of Naval Research, Undergraduate Research Assistant, Columbia, SC

August 2024 – Current

- Research position under the Molinaroli College of Engineering and Computing
- Research object detection software for unmanned maritime systems
- Use YOLO and LaMa in Python to remove raindrops from images
- Presented in over 50 meetings with ONR, USC professors, and integer technologies

USC Division of IT, Network Operator, Columbia, SC

April 2025 – Current

- Clear and process enterprise switches (Aruba, Cisco, Juniper)
- Manage RMA tracking and organizing inventory stacks
- Perform AP diagnostics and cable fixes across the USC campus

Naval Information Warfare Center Atlantic (NIWC), SEAP Intern, Charleston, SC

May – August 2024

- Configured and secured laptops with LINK-16 for NATO-aligned foreign countries (FMS Lab)
- Coded front-end components in Stemrocks.net, a STEM outreach platform (Mobile Applications Lab)

Projects & Extracurriculars

Personal Website: justinschlag.github.io — extended resume portfolio of technical work and personal projects

JustinBot: Trained AI bot, featured on my website to answer questions about my professional experiences

Publication: “Education Inequality: The Need for Reform” Featured in Volume 11 of WRITING SOUTH CAROLINA

Hackathon: Completed VICEROY - Spectral Cloak, Blue Edge Team 2024.

Athletics: USC Powerlifting team; Collegiate Nationals Qualifier for USAPL; SC State Champion and record holder, Gamecock Barbell Club

Technical Skills

Languages: Python, Java, JavaScript, HTML, CSS

Frameworks & Libraries: React.js, PyTorch, OpenCV, Node.js, SAM2, Tkinter

Tools & Platforms: Git, GitHub, MATLAB, Unix/Linux, Anaconda, VS Code

Networking & Systems: Cisco and Juniper switches, Aruba APs, RMA tracking, NetScout diagnostics

Hardware & Electronics: Soldering, multimeter testing, wire splicing, rack wiring, radio tuning (CM-350 V2)