Justin Schlag

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Education

University of South Carolina — May 2028
B.S.E. in Computer Engineering — GPA: 3.8
Honors and Awards: South Carolina Honors College, Dean's Scholars Award, Palmetto Fellows Scholar,
South Carolina Internship Program Award, Naval Horizons Highest Honors, President's List
Clearance: Current Secret Security Clearance

Work Experience

Office of Naval Research, Undergraduate Research Assistant, Columbia, SC — August 2024 – Current
- Research position under the Molinaroli College of Engineering and Computing
- Research deweathering software for unmanned maritime systems
- Use YOLO and pytorch in MATLAB to collect data for machine learning pipeline
- Presented in meetings, including a QPR's to ONR grant funders

Naval Information Warfare Center Atlantic (NIWC), ATC Intern, Charleston, SC — May – August 2025
- 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

USC Division of IT, Network Operator, Columbia, SC — March – August 2025
- Cleared and processed enterprise switches (Aruba, Cisco, Juniper)
- Managed RMA tracking and organizing inventory stacks
- Performed 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 — Features all my personal projects, work experiences, and personal portfolio
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, C++
Frameworks & Libraries: React.js, PyTorch, OpenCV, Node.js, SAM2, Tkinter
Tools & Platforms: Git, GitHub, MATLAB, Unix/Linux, Anaconda, VS Code, HTML, CSS
Networking & Systems: Cisco and Juniper switches, Aruba APs, RMA tracking, NetScout diagnostics
Hardware & Electronics: Soldering, multimeter, wire splicing, rack wiring, radio tuning (CM-350 V2)