# Justin Schlag

University of South Carolina Honors College | (843) 408-7027 |

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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
- Researched object detection software for unmanned maritime systems
- Created clear image software for rainy/foggy weather conditions
- 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, Leadership & Extracurriculars

**Personal Website**: https://justinschlag.github.io/ — extended resume portfolio of technical work and personal projects
**Justin Bot**: 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

## Technical Skills

**Languages:** Python, Java, JavaScript, HTML, CSS
**Frameworks & Libraries:** React.js, React Native, PyTorch, OpenCV, Node.js, SAM2, Tkinter
**Tools & Platforms:** Git, GitHub, MATLAB, Unix/Linux, MODBUS TCP, Render, 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)