

## Justin Schlag

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

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#### University of South Carolina

Expected Graduation: May 2028

Bachelor of Science in Computer Engineering

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

Extracurriculars: Cyber Club, Gamecock Powerlifting, Gamecock Barbell Club

### Work Experience

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

August 2024 - Current

- Collaborated as a team to improve maritime radar detection for Navy and Marine vessels
- Uploaded over 500 box-bounded images to train the AI model (YOLOv7) to detect objects
- Coded in Python to create basic detection software using sensors for harsh weather conditions
- Simulated foggy and rainy images to train the model in diverse weather scenarios

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

May - August 2024

##### Foreign Military Sales Lab - Project Engineer Intern (May - June)

- Configured foreign laptops with LINK-16 for secure international communication across five countries.
- Prepared 15 server racks, utilized CAD for wire and equipment setup
- Secured and packaged equipment for international shipping
- Enabled secure communication with Morocco and U.S. amid Algerian regional threats

##### Mobile Applications Lab - Computer Scientist Intern (June - August)

- Enhanced user engagement for training content on stemrocks.net
- Created a document center with a task list to mimic the onboarding document process
- Coded new front-end functions using React.js and HTML

#### Halls Chophouse - Server, Charleston, SC

November 2023 – May 2024

- Provided high-end service, managed dining hall preparation
- Coordinated with chefs and servers to ensure a seamless dining experience for guests
- Served over 250 tables over the course of my time, many included high end clientele

### Achievements

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#### **Publication:** "Education Inequality: The Need for Reform"

- Featured in Volume 11 of WRITING SOUTH CAROLINA
- Argumentative essay on how to improve the South Carolina education system.
- Argues for more equal allocation of resources for students in South Carolina

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

- Cybersecurity competition where teams compete to infiltrate a system, and leave minimal trace
- Navigated file systems, executed scripts in command line, network traffic analysis

**Athletics:** Collegiate Nationals Qualifier for USAPL; SC State Champion and record holder

### Technical Skills

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Languages: Java, JavaScript, Python, HTML, CSS

Frameworks & Tools: React.js, React Native, PyTorch, Node.js

Development: Unix/Linux, Git, GitHub, SCRUM

Hardware: CAD design, wire splicing, server rack setup, laptop configuration, basic electronics diagnostics