



# Jack Foil

## Recent Graduate

## Contact

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 <https://github.com/jackfoil>

## Education

May 2022

### Louisiana Tech University

Major: Cyber Engineering

Minor: Computer Science, Math

GPA: 3.5

## Awards

- CompTIA Security Plus
- Cyber Corp Scholarship Award Winner
- ACE Graduate
- Louisiana Tech Honors College
- Scuba Certified

## Languages

- Python
- Java
- VHDL and Verilog
- R Language
- C

## Software

- Django
- Wireshark
- Cobalt Strike
- Docker
- Metasploit
- Powershell

## Profile

I am a graduate from Louisiana Tech University with a degree in Cyber Engineering. I am pursuing a career focused on national security, utilizing my education and experience in the cyber security field. I am a part of Omicron Delta Kappa and Upsilon Pi Epsilon. I am an avid runner and vice president of the Louisiana Tech Swim Club.

## Air Force Advance Course (ACE) in Engineering Cyber Boot Camp

- Member of winning team of capstone that consisted of 56-hour cyber warfare simulation that used cyber and physical means to deter and destroy foreign aggression of opposing threats. Maintained persistent intelligence surveillance and reconnaissance to gain early warning of foreign aggression.
- Created undetectable malware to sneak stealthily into a Windows host-based system by making modifications to the malware to steal credentials from multiple targets while avoiding detection.
- Organized and assimilated credentials, files, logs, network scans, and screenshots in a variety of formats to transform raw data to information enabling users to focus on the core tasks.
- Wrote comprehensive technical solutions to open-ended problems and presented solutions under time-constraints each week of internship.

## Accomplishments

### Dynamically Generated Covert Channel (DGCC)

- Gather information from a target environment to generate the best fit covert channel for the network. It allows the typical penetration tester to create the best communication median between the host and the target.

### Risk Assessment

- Assessed the security risk on a local business through the analysis of policy and computer utilization. The results of the assessment included a detailed report about the knowledge of methodology, results and mitigations.

### Physical Unclonable Function (PUF)

- Developed a script for a FPGA to create a unique defined digital fingerprint to authenticate the user.

## Professional Experience

June 2021 – August 2021

Rome, NY

### Advance Course in Engineering Intern at Air Force (Griffiss Institute)

- Worked alongside Air Force members and developed cybersecurity and leadership skills.

March 2020 – May 2022

Ruston, LA

### Data Analysis at GWP Solutions

- Created Ruston e-commerce Marketplace program for GWP Solutions. Technology designed to help small retail businesses in Ruston manage inventory tracking during Covid-19 crisis. Program allowed business owners to quickly and efficiently track quantities of goods flowing in and out of stock.

April 2016

Baton Rouge, LA

### Page at Louisiana State House of Representatives

- Distributed documentation to Louisiana State House Representatives and provided other administrative services as needed