

# Abhinav N. Vemulapalli

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## Objective

Computer Engineering major seeking an internship in cybersecurity and developing my understanding of the technical world

## Education

### Georgia Institute of Technology | Atlanta, GA

July 2022– Present

Bachelor of Science in Computer Engineering, GPA 4.0

Expected Graduation, May 2025

Studied abroad in France

## Experience

### SpyderSec | Remote (Based in CO)

June 2022 – Present

#### Security Analyst Intern

*SpyderSec is a trusted cyber security solutions provider specializing in solutions designed to meet customer needs*

- Responsible for configuration and set up of AWS phishing infrastructure and automating deployment with Terraform
- Performs web application and network penetration testing using tools and techniques like Burp Suite and code analysis

### Networked Robotic Control Undergrad Research | Atlanta, GA

January 2023 – Present

#### ROS Developer

*The research project is attempting to develop a secure method of controlling a robotic arm via various input methods*

- Building an ROS network using C++ and Python from scratch
- Beginning to test the security standing of the ROS network and framework

### YPrime | Remote (Based in PA)

Summer 2021

#### Software Developer Intern

*YPrime is a company that specializes in software that helps manage and run clinical trials*

- Programmed unit tests and a graphical application in C# to help increase productivity internally
- Documented internal processes

## Skills

**Certifications:** OSCP (Offensive Security Certified Professional), CCNA (Cisco Certified Network Associate)

**Programming:** Java, Python, HTML, CSS, JavaScript, PHP, SQL, Git/GitHub

**Platforms:** Linux (Ubuntu, Debian), Kali Linux, Windows (Server and Consumer), MacOS

**Communication:** Leadership, teamwork, problem solving, presentations (large and small audiences)

**Languages:** English (native), Telugu (fluent), French (conversational)

## Projects

### Firefox Vulnerability Research

2021 – 2022

#### Senior Capstone, High School

*Independently planned and spent time trying to identify vulnerabilities in Firefox*

- Spent a year understanding Firefox internals and attempting to develop a fuzzing tool
- Gave a talk on my research and advice for public to stay secure with web browsers

## Activities

### Yellow Jacket Space Program

January 2023 – Present

#### Software Developer

- Helping my team refactor codebase for the control server from C++ to Rust
- Implementing low-level logging and network programming in Rust

### CyberPatriot

November 2017 – May 2022

#### Team Leader

- Led my team to top three in state consistently for five years and competed at Nationals in Maryland in 2022
- Worked primarily in configuring and securing Cisco networks as well as securing Linux and Windows operating systems

## Relevant Coursework

**Intro to Object Oriented Programming:** Learned OOP concepts such as inheritance, encapsulation, and polymorphism in Java

**Data Structures & Algorithms (in progress) :** Analyzed and implemented data structures such as Linked Lists, Hash Maps, Binary Trees, etc