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