

Pranav Sudeendra

+1 (857)565-5995 — sudeendra.p@northeastern.edu — [LinkedIn](#)

Education

Northeastern University, Boston, MA

Sept 2024 -Present

- Khoury College of Computer Sciences
- Master of Science in Cybersecurity
- **Related Courses:** Network Security, Fundamentals of Cybersecurity, Wireless and Mobile Network Security

PES University, Bengaluru, India

Sept 2020 - May 2024

- Bachelor of Technology in Electronics and Communication Engineering
- Minors in Computer Science and Engineering
- **Related Courses:** Computer Networks, Operating Systems, Computer Architecture.

Technical Skills

Programming Languages: Python, Bash, C/C++, SQL, MATLAB

Security Tools: GNS3, Wireshark, Aircrack-ng, Hashcat, Nmap, OpenSSL, GPG

Environment and Tools: Selenium, Jenkins, ElasticSearch, Git, Jira, Postman

Professional Experience

AI Palette, Software Intern

Feb 2024 - August 2024

- Developed and automated over **50 Python and Selenium** scripts for UI/UX validation, reducing manual testing by **80%** and achieving **95%** test coverage during platform migration, with **zero** critical bugs.
- Led the transition from the old to the new UI/UX, integrating Jenkins into CI/CD pipelines, which boosted test execution speed by **40%** and improved deployment reliability.
- Worked with cross-functional teams to deploy ElasticSearch (ES), improving system stability and minimizing post-migration issues.

Certifications

- Cisco Certified Network Associate (CCNA) [Click](#)
- CompTIA Security+ ce Certification [Click](#)

Projects

The Fortress: Enterprise Network Security and Troubleshooting

- Designed, configured, and troubleshot enterprise-grade networks with network security features, including port security, firewalls, and VPNs, ensuring **confidentiality, integrity, and availability**.
- Conducted network performance analysis, applied security best practices to mitigate potential vulnerabilities and simulated real-world scenarios, identifying and resolving security breaches.

Crack, Attack, and Defend: Real-World Wi-Fi Security Testing

- Executed an in-depth exploration of wireless network vulnerabilities using IEEE 802.11 protocols and cutting-edge tools like Aircrack-ng, and Wireshark on networks protected by WEP and WPA2.
- Configured a malicious AP using Hostapd and simulated phishing attacks to capture sensitive device traffic. Analyzed rogue network behaviour using Wireshark for vulnerability exploitation.

SDR Chronicles: Building, Breaking, and Securing Wireless Systems

- Developed and implemented projects exploring the intersection of software-defined radio (SDR) technology and wireless security.
- Leveraged GNU Radio and SDR platforms to design a working FM receiver and transmitter and to execute a cybersecurity attack on a wireless doorbell system.

Research Publications

Kannada Subtitle Generation with Speaker Diarization: A Comprehensive Solution for Regional Language Visual Media Accessibility.[Click](#)