

## PROFESSIONAL EXPERIENCE

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- Cyber Security Engineer** | Florida Department of Children and Families January 2025- Present
- Lead Incident Response activities by investigating, containing, and remediating security incidents using Microsoft Sentinel (KQL), Microsoft Defender, SentinelOne, ExtraHop, Intune, and threat intelligence from Recorded Future.
  - Execute organization-wide phishing simulations and security awareness campaigns to improve user resilience.
  - Perform malware triage and analysis using Recorded Future Sandbox and Kali Linux to identify root causes and attacker TTPs.
  - Develop and tune analytic rules and automation playbooks in Azure Sentinel to reduce false positives and improve SOC efficiency.
  - Conduct Red Team and adversary emulation activities using Atomic Red Team and Caldera against the environment defenses.
  - Configure and maintain enterprise security tools, deploy new capabilities, and lead PoCs for security products.
  - Assist with SSO integrations and identity-related security controls.
  - Perform application security testing using Rapid7 InsightAppSec, including SAST and DAST scanning, vulnerability analysis, and remediation guidance across multiple web applications and collaborate with development teams for remediation.
- Research Assistant** | Department of Computer Science, Florida State University August 2019 – December 2024
- **StarAngle: User Orientation sensing using Starlink Beacons** ([Published](#)) - Engineered a custom hardware receiver for Starlink satellite signals and developed a signal processing software, achieving high-precision user orientation sensing with a median error of only 7.5 degrees. [Funded by NSF](#)
  - **2-Pipe: Simultaneous Downlink Transmissions in LoRa** ([Published](#)) - Designed and engineered a novel network protocols for LoRaWAN, increasing channel capacity by 166% through optimization of downlink traffic management.
  - **TnB: Resolving Collisions in LoRa** ([Published](#)) - Engineered a collision resolution protocol for LoRaWAN uplinks to mitigate network congestion, increasing system throughput and packet detection rates by 246% over existing industry standards. [Funded by NSF](#)
  - **Intrusion Detection Using Deep Active Learning**.
  - **Malware Classification and Detection using Data Mining**.

## TECHNICAL SKILLS

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### Core Competencies

Incident Response • SOC Operations • SIEM • SOAR • Threat Hunting • Threat Intelligence • Penetration Testing • Malware Analysis • Digital Forensics • SAST • DAST • Vulnerability Management • SSO & IAM • Red Teaming • DLP • IDS/IPS

### Tools & Platforms

- **Security Tools:** Microsoft Sentinel (KQL), Microsoft Defender, EntralID, SentinelOne, Palo Alto XSIAM, Palo Alto Expanse, ExtraHop, Recorded Future, Cisco ETD, Cisco WLC, Elastic (Kibana), Security Onion, Docker, Tanium, Upguard, ServiceNow.
- **Penetration Testing & Forensics:** Burp Suite, Nmap, Wireshark, Metasploit, John the Ripper, Hashcat, EnCase, Sleuth Kit, FTK Imager, SQLMap, Kali Linux, Commando VM, Procmon/Process Explorer
- **Web & Directory Security:** Active Directory, AD AuditPlus, Ffuf, Dirb, DirBuster, Wpscan
- **Reverse Engineering:** IDA Pro, Ghidra, radare2, GDB, Pwntools

### Programming & Scripting

Python • C • C++ • MATLAB • JavaScript • Bash • PowerShell • SQL • Git

### Certifications

- CompTIA Security+

## EDUCATION

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- Doctor of Philosophy in Computer Science** • *Florida State University* May 2020 – December 2024
- Master of Science in Cybersecurity** • *Florida State University* August 2017 – December 2019
- Bachelor of Science in Computer Science** • *RGPV, India* August 2012 – July 2016

## ACHIEVEMENTS AND INTERESTS

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- Dean's Award for excellence in research and academics, 2023.
- Ted and Syauchen Baker Award for Excellence in Student Research, Fall 2023.
- Placed 1<sup>st</sup> in CyberCorps Division in 2023 JerseyCTF competition hosted by the NJIT.
- Former member of FSU Cybersecurity team (Nol3ptr).