

# Rusheel Raj Panakadan

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Security Engineer with 5+ years of expertise in defensive security and red team engagements, delivering measurable reductions in enterprise vulnerabilities.

## Education

**Master of Science in Information Assurance & Cybersecurity** | GPA: 4.0/4.0

*Aug 2022 – May 2024*

*Melbourne, FL*

**Florida Institute of Technology**

Relevant Coursework: Cyber Forensics, Memory Forensics, Network Security, Threat Modeling, Application Security.

**Bachelor of Technology in Computer Science** | GPA: 3.6/4.0

*Aug 2015 – May 2019*

*Chennai, India*

**Vel Tech University**

Relevant Coursework: C, Java, Python Programming, Cyber Kill Chain, Operating Systems, Security Engineering & Unix/Linux Internals.

## Professional Experience

**Security Engineer**

*Jul 2024 – Present*

*Melbourne, FL*

**Tagridge Technologies**

- Spearheaded comprehensive security assessments yielding 25% reduction in enterprise attack surface through strategic identification of network vulnerabilities and Active Directory misconfigurations.
- Enhanced web security via OWASP-based testing with Burp Suite, increasing detection by 30%.
- Executed sophisticated red team engagements achieving 100% of assessment objectives, enabling clients to remediate critical infrastructure vulnerabilities.

**Cybersecurity Research Assistant**

*Jan 2023 – Dec 2023*

*Melbourne, FL*

**Florida Institute of Technology**

- Implemented a local DNS server with DNSSEC, DOT, and DOH, reducing DNS query response time by 35.2% and enhancing network defense security and performance.
- Engineered in extracting and analyzing forensic disk images from storage devices, utilizing tools such as dd, Autopsy and FTK.
- Conducted malware analysis on three diverse operating systems, facilitating the creation of a comprehensive dataset.

**Security Engineer**

*Jun 2019 – May 2022*

*Hyderabad, India*

**Wipro**

- Spearheaded bug identification and reporting initiatives for Windows 11 OS, driving a transformative 60% enhancement in system stability and reliability, elevating product quality standards.
- Pioneered comprehensive testing protocols for antivirus solutions, executing malware and viruses in controlled environments, resulting in a remarkable 35% improvement in threat detection efficacy and bolstering cybersecurity defenses.
- Championed the fortification of Microsoft Defender within the OS, culminating in a substantial 30% increase in malware detection and incident response rates, thereby ensuring strong protection against evolving cyber threats.

**Security Analyst Intern**

*Nov 2018 – May 2019*

*Delhi, India*

**CERT-In**

- Executed successful RCE (Remote Code Execution) on Apache2 Struts, Drupal 7, and SMB servers, bolstering penetration testing expertise and fortifying system defenses against critical vulnerabilities.
- Enhanced security protocols with Nmap, Nessus, and Metasploit, driving a 40% surge in vulnerability detection and efficiency.

## Select Academic Projects

- **Enhancement of Volatility - 3 plugin** – Expanded the functionality of open-source memory forensics tool Volatility3 hashdump plugin by integrating an API to communicate with "hashes.com". This allows the plugin to fetch cracked passwords by passing hashes obtained from memory images. [GitHub](#)

## Technical Skills

- C/C++, Python, JavaScript, Git, SQL, Splunk, ELK Stack, IBM QRadar, CrowdStrike Falcon, SentinelOne, Microsoft Defender for Endpoint, Carbon Black, Azure Defender for Cloud, Okta, Azure AD/Entra ID, Snort, TCP/IP, SOAR (Phantom), MITRE ATT&CK, Threat Hunting, Nmap, Nessus, Wireshark, Tenable.io, Qualys, Zeek, Metasploit, Cobalt Strike, Burp Suite, OWASP Top 10, BloodHound, Terraform, HashiCorp Vault, ffuf, wfuzz, Volatility-3, Docker, Kubernetes (kube-bench, Falco), Postman, Threat Modeling, Kali Linux, Windows, VMWare, ISO 27001, NIST, Critical Thinking.

## Certifications & Achievements

- CompTIA Pentest+, CNPen, CNSP, C3SA, Google Cybersecurity Certified, CompTIA CySA+ (Exam scheduled: May 2025).
- Ranked 50th nationally out of 7,930 in the Individual Game National Cyber League (NCL) CTF – Capture the Flag (Fall 2023).
- Mentor and executive member of FITSEC (Florida Tech Cybersecurity Club) and WiCyS.