

# RY Selvaganapathy

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## Objective

Aspiring Cybersecurity specializing in Application Security and SOC operations with hands-on VAPT expertise. Proficient in vulnerability assessment, penetration testing, and security tool implementation across diverse client environments. Seeking to leverage comprehensive security skills and practical experience in identifying, analyzing, and mitigating application vulnerabilities in a dynamic security-focused role.

## Internship Experience

- **Junior Pentester Intern** — *Ana-data Consulting Services, Chennai* — (Jul 2025 – Present)
  - Conducted VAPT assessments for 2 clients using Burp Suite Professional, identifying SQL injection, XSS, and authentication vulnerabilities
  - Performed network scanning with Nmap, Nessus, and Nuclei; utilized Arjun for parameter discovery and Metasploit for exploit validation
  - Documented findings with CVSS risk ratings and remediation recommendations following OWASP Top 10 framework
  - Implemented Red Team attack simulations and Blue Team defensive strategies for comprehensive security testing
- **Python Developer & ML Intern** — *Excelencia iTech Consulting Pvt. Ltd., Chennai* — (Mar - Apr 2025)
  - Engineered a high-performance media streaming pipeline for a social media application, implementing progressive video streaming logic to optimize backend performance, reduce latency, and minimize user bandwidth consumption
  - Developed and deployed an AI-driven content moderation system using Natural Language Processing (NLP) for real-time text classification and a supervised Computer Vision model trained on a 25,000-image dataset to automate the filtering of inappropriate content.
- **Digitalization Developer Intern** — *BMW Group India Pvt. Ltd., Chennai* — (Oct-Dec 2024)
  - Created a HR Dashboard using Power BI to track applicants and their ratings by the HR team
  - Developed Employee Training Management System using Node.js and React.js with MySQL database- a robust and scalable project built by a team of 3, led by me

## Technical Skills

- **Security Tools & Frameworks:** Burp Suite Professional, Nessus, Nmap, Nuclei, Arjun, Metasploit Framework, OWASP ZAP, Wireshark
- **VAPT & Security Testing:** Web Application Security Testing, Network Penetration Testing, Vulnerability Assessment, Security Code Review
- **Security Methodologies:** OWASP Top 10, PTES, NIST Cybersecurity Framework, Red Team Operations, Blue Team Defense
- **Programming & Scripting:** Python (Security Automation), JavaScript, Node.js, Express.js, Bash/PowerShell Scripting
- **Database Security:** PostgreSQL, MySQL, SQL Server, MongoDB - Security hardening and injection testing

## Education

- **Bachelor of Engineering in Computer Science & Engineering**  
Specialization in Cyber Security at Easwari Engineering College, Anna University  
Expected graduation: 2026  
Current CGPA: 8.67

## Projects

- **Web Application Security Assessment:** Comprehensive security testing of client web applications using automated and manual testing techniques. Identified and documented 2 critical vulnerabilities including XSS, and Exposed Credentials.
- **Network Infrastructure Penetration Testing:** Conducted full-scope network penetration testing using Nmap for reconnaissance, Nessus for vulnerability scanning, and Metasploit for exploitation. Delivered detailed security reports with risk prioritization and remediation timelines.
- **Secure Training Management System:** Developed Employee Training Management System using Node.js and React.js with MySQL database- a robust and scalable project built by a team of 3, led by me

## Certifications

- Google Cybersecurity Professional - Coursera
- CompTia Pentest+ - In Progress