RANA N. VANIKAR

Pune, Maharashtra, India · rana.vanikar@outlook.com · +91 8380099014 · www.linkedin.com/in/rana-vanikar/

EDUCATION

Pune Institute of Computer Technology (SPPU)   Pune, Maharashtra, India
BE Electronics and Telecommunications *GPA: 8.76*   Dec 2021 - July 2025 (Expected)

SP College Pune   Pune, Maharashtra, India
High School (HSC) PCM *GPA: 82.83%*   June 2019 - May 2021

WORK EXPERIENCE

Uniken INC   Pune, Maharashtra, India
Intern - Mobile Application Security Tester   Aug 2024 - Nov 2024

- Conducted static & dynamic analysis of Android applications using industry-standard tools.
- Evaluated application vulnerabilities and reported security flaws with remediation steps.
- Applied OWASP Mobile Top 10 techniques to assess security vulnerabilities in Android applications.

Cybage Software   Pune, Maharashtra, India
Intern - Cybersecurity   Dec 2023 - Feb 2024

- Automated SAST & SCA integration into CI/CD pipelines, optimizing security workflows and enhancing DevSecOps practices
- Performed manual DAST and API penetration testing following OWASP standards.
- Compiled security testing reports and recommended fixes to improve web application security.

PICT CyberCell   PICT, Pune
Technical Head   July 2023 - Aug 2024

- Conducted workshops on advanced topics such as DevSecOps, Computer Networking and Network Security
- Deployed and automated cloud infrastructure for CTF events and workshops, ensuring seamless operations.
- Engineered scalable, secure network access solutions for IITB+HSBC CTF events, ensuring high availability and security.

SKILLS

Programming and Scripting:	Python, JavaScript, C/C++, Bash
Essentials:	DBMS(MySQL), OS, Networking, DevOps, CI/CD, Cloud Computing
Tools and Services:	Ansible, Docker, Git, Zabbix, Grafana, Kubernetes
Cloud:	AWS, Azure, DigitalOcean, Proxmox
Cybersecurity:	OWASP, MITRE ATT&CK, Bug Hunting, Incident Response, Wazuh, SPLUNK

PROJECTS

Home Lab *Routers, Layer 3 switches, wireless access points, Proxmox node, Ansible, Zabbix*
Built and manage a home lab with virtual machines and containers for hands-on DevOps and DevSecOps experimentation. Automated infrastructure management using Ansible, and monitoring system performance using Grafana, InfluxDB and RestAPI.

AI Powered Deep Packet Analyzer *Python, AI/ML, Scapy, Wireshark, L3 Managed Switch*
Currently working on an AI-driven network security model for real-time packet inspection and anomaly detection using Python, Scapy, and Wireshark. The project aims to classify network packets based on signatures, protocols, and traffic patterns to detect security threats proactively. A research paper on the findings is in progress and set to be published in Springer LNNS, focusing on the effectiveness of AI in enhancing cybersecurity defenses.

IoT Powered Power Over Ethernet Injector and Extractor *ESP32, ACS712, Azure, Grafana, InfluxDB*
Developed an IoT-enabled Power over Ethernet (PoE) system with real-time power monitoring and a cloud-based dashboard for data visualization. Integrated seamlessly with existing network infrastructure, enabling real-time monitoring.

Multiple 3D Printer Orchestration *RaspberryPI, AWS (For VPN Tunnel), Servo Motors, Ender3 3D printers*

Developed a system for managing multiple 3D printers with centralized control and secure remote access. Automated monitoring and job scheduling, optimizing efficiency and reducing manual intervention.