

RANA N. VANIKAR

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EDUCATION

Pune Institute of Computer Technology (SPPU)
BE Electronics and Telecommunications *GPA: 8.76*

Pune, Maharashtra, India
Dec 2021 - July 2025 (Expected)

SP College Pune
High School (HSC) PCM *GPA: 82.83%*

Pune, Maharashtra, India
June 2019 - May 2021

WORK EXPERIENCE

Uniken INC
Intern - Mobile Application Security Tester

Pune, Maharashtra, India
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
Intern - Cybersecurity

Pune, Maharashtra, India
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
Technical Head

PICT, Pune
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, RaspberryPI
For over five years, I have been building and managing a home lab with virtual machines and containers for hands-on DevOps and DevSecOps experimentation. I automate infrastructure management using Ansible and continuously monitor system performance with Grafana, InfluxDB, and REST API.

AI Powered Deep Packet Analyzer Python, AI/ML, Scapy, Wireshark, L3 Managed Switch
Developing an AI-driven network security model for real-time packet inspection and anomaly detection using Python, Scapy, and Wireshark. The system classifies packets by signatures, protocols, and traffic patterns to detect threats proactively. A related research paper, highlighting AI's role in cybersecurity, is set for publication in Springer LNNS.

IoT Based Power Over Ethernet Device ESP32, ACS712, Azure, Grafana, InfluxDB, RaspberryPI
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.

Freelance Bug Hunting NMAP, BurpSuite, Postman, SQLi, XSS, Cloud Security, Network Security
For over two years, I have been identifying and reporting security vulnerabilities in web, mobile, and cloud deployments through responsible disclosure programs. I provide remediation steps, detailed PoCs, and clear reproduction steps to help organizations strengthen their security.