

VATSALYA VIGYA VERMA

MSC CYBERSECURITY STUDENT

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OBJECTIVE

Cybersecurity MSc student passionate about infrastructure management, DevOps, and cybersecurity. I thrive on solving complex problems in binary exploitation, threat hunting, and cloud security. Adept at using modern tools to secure systems and enhance operational efficiency.

EXPERIENCE

Freelance DevOps and Security Consultant

Remote | September 2023 – August 2024

- Built secure Kubernetes clusters on Proxmox nodes, optimizing resource use by 40% and enhancing security with network segmentation.
- Deployed a security monitoring solution using ELK Stack, reducing incident response time by 60%.
- Automated security scanning in CI/CD pipelines with GitLab CI for early vulnerability detection.
- Conducted web app security audits, addressing OWASP Top 10 vulnerabilities in multiple client projects.

PROJECTS

Private Cloud Setup: Created a private cloud with Proxmox, VyOS router, IDS, Pi-hole DNS, and Ubuntu VMs, hosting scalable Kubernetes deployments for apps like GitLab EE.

Custom IDS Development: Developed an Intrusion Detection System in Python using Scapy for real-time attack detection.

Binary Exploitation Practice: Used tools like IDA Python and fuzzers to reverse-engineer binaries and identify vulnerabilities.

EDUCATION

MSc in Cybersecurity

University of Surrey, Guildford, Surrey

Expected Graduation: 2026

BSc in Computer Science

Dr. APJ Abdul Kalam

University, Indore, India

CGPA: 7.08

MODULES

- NETWORK SECURITY
- ETHICAL HACKING
- CLOUD SECURITY
- MALWARE ANALYSIS

BS COMPUTER SCIENCE

- DR. APJ ABDUL KALAM UNIVERSITY, INDORE, INDIA
- CGPA: - 7.08

TECHNICAL SKILLS

Security Tools: Metasploit, Wireshark, Nmap, IDA Python, IDA64, Scapy, Foremost, Autopsy

Networking: VyOS, Firewalls (BSD, Linux), DNS, VPNs

PROFESSIONAL INTERESTS

- Threat Hunting and Incident Response
- Cloud Security Architecture
- DevSecOps and Secure CI/CD Practices
- Penetration Testing and Vulnerability Assessment

CERTIFICATIONS & WORKSHOPS

- Participated in workshops on Malware Analysis and Binary Exploitation.
- Actively pursuing certifications in cybersecurity and cloud security.

TECHNICAL SKILLS

Cloud: Docker, Kubernetes, ELK Stack, Terraform

Programming: Python, Go, Bash

DevOps Tools: Ansible, Terraform, GitLab CI/CD