

# Pratham Barve

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## PROFESSIONAL SUMMARY

Cybersecurity professional with expertise in **Vulnerability Assessment & Penetration Testing (VAPT)**, **IAM**, **Cloud Security**, and **Incident Response**. Proven track record in **securing on-premise and cloud infrastructures**, mitigating threats, and ensuring compliance with industry standards like **ISO 27001**, **NIST**, **PCI-DSS**, and **OWASP**. Skilled in developing **automated security tools**, analyzing **SIEM alerts**, and improving enterprise security posture. Passionate about **threat intelligence**, **risk management**, and **ethical hacking**.

## SKILLS AND COMPETENCIES

- **Cybersecurity & Risk Management** – Risk assessment, compliance (**NIST**, **ISO 27001**, **PCI-DSS**, **GDPR**)
- **Identity & Access Management (IAM)** – RBAC, SSO, MFA, Privileged Access Management (PAM)
- **Cloud & Virtualization Security** – Azure Security, AWS Security, Kubernetes Security, VMware
- **Network Security & VAPT** – Firewall management, IDS/IPS, VPN, Wireshark, Metasploit, Burp Suite
- **Incident Response & Threat Detection** – SOC monitoring, SIEM tools (Splunk, QRadar), threat hunting
- **Penetration Testing Tools** – Nessus, Nmap, Nikto, Kali Linux, OWASP ZAP, John the Ripper
- **Programming & Automation** – Python, Bash, PowerShell (for security automation)

## EDUCATION

**M.Tech in Cybersecurity** | Dr. Vishwanath Karad MIT World Peace University, Pune (2023-2025) | CGPA: 8.06

**B.Tech in Electronics & Communication Engineering** | Birla Vishvakarma Mahavidyalaya (2018-2022) | CGPA: 7.66

## PROFESSIONAL EXPERIENCE

### Network and Desktop Support Engineer

ASNA Company | 13 months

- Managed **firewalls, switches, and network devices**, ensuring 99.9% uptime for critical IT operations.
- Diagnosed and resolved network vulnerabilities, improving security by 30%.
- Assisted in **incident response and log analysis**, reviewing 50+ logs daily to detect network anomalies, reducing response time by 25% and improving threat detection efficiency by 15%.

### System Administrator

SM2 Infotech | 6 months

- Provided end-to-end IT infrastructure support, including **Active Directory and IAM management**, optimizing user provisioning efficiency by 40% and improving access control compliance.
- Ensured smooth network connectivity and **security patching**, reducing downtime by 40%.
- Assisted in SOC monitoring and analyzed SIEM alerts, reviewing 30+ security events daily to detect and mitigate potential threats, reducing false positives by 20%.

## PROJECTS

### Automated Vulnerability Scanner (VAPT-focused)

- Developed a Python-based tool that automates vulnerability scanning for web applications and networks.
- Reduced manual security testing time by 60% and improved threat detection accuracy by 30%.
- Integrated with Nmap, OWASP ZAP, and Nessus for in-depth security assessments.

### IAM Implementation with Role-Based Access Control (RBAC)

- Designed and implemented an IAM system for a small organization, ensuring 100% role-based access control (RBAC) compliance and eliminating unauthorized access incidents.
- Used **Azure Active Directory** and Okta for managing user roles and permissions securely.

### Cloud Security Monitoring and Threat Detection (Azure-based)

- Set Up Azure Security Center and Sentinel for real-time security monitoring.
- Configured fine-tuned SIEM alerts, leading to a 40% reduction in alert fatigue and improving detection of unauthorized access attempts by 20%.
- Improved cloud security posture by enforcing **Zero Trust Architecture (ZTA)**.

## CERTIFICATIONS

- **Certified Ethical Hacker (CEH v12)** – Certification No: ECC1053276849
- **Microsoft Technology Associate (MTA)** – Security Fundamentals
- **Cisco Certified Network Associate (CCNA - Trained)**
- **Microsoft Azure Cloud Certification**
- Introduction to Cybersecurity – **CISCO Networking Academy**

## LANGUAGES

English, Hindi, Marathi, Gujarati