

# Mihir Katre

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## Skills

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**Application Security:** OWASP Top 10, Burp Suite, Metasploit, Kali, Nessus, Nmap, Wireshark, MITRE ATT&CK, Ghidra, IDA PRO.

**Cloud Security:** AWS (EC2, S3, IAM, WAF, KMS, CloudWatch/CloudTrail), Azure (VM, SQL, VPN, Monitor, Sentinel, Key Vault, NSG); Docker, Kubernetes.

**Languages:** C#, .NET (Core/8), JavaScript, React, Blazor, Angular, Vue, REST APIs, PowerShell, Bash.

**DevSecOps:** GitHub Actions, Azure DevOps, CI/CD, SAST/DAST, Terraform, Ansible, SonarQube, Datadog, Postman.

**Networking/OS:** TCP/IP, DNS, TLS/SSL, VPNs, Linux hardening, Windows/AD security.

## Experience

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- Software Engineer (Security-Focused) | Tyler Technologies, New York, USA** May 2024 – Present
- Executed secure code reviews on .NET 8 applications/APIs, **eliminating 89%** of OWASP Top 10 vulnerabilities.
  - Engineered **SAST/DAST pipelines** in GitHub Actions, **accelerating detection of exploitable flaws by 60%**.
  - Resolved **120+ vulnerabilities** in partnership with senior engineers, embedding security practices into the SDLC.
- Cloud Security Engineer | Deloitte, Mumbai, India** Sept 2022 – July 2023
- Reviewed designs and conducted **threat modeling** across **25+ multi-cloud environments**.
  - Implemented least-privilege **IAM** over **7,000+** resources; reduced excessive privileges by **70%**; embedded **NIST/CIS** controls (**93%** audit pass).
  - Established **CVE monitoring & remediation tracking** with dev leads, improving SLA adherence and audit readiness.
- DevSecOps Engineer | Foraysoft, Mumbai, India** Jun 2022 – Sept 2022
- Integrated **SonarQube** & secret scanning into CI/CD; blocked **120+ credential exposures**; reduced pre-deployment security defects by **35%**.
  - Automated **remediation runbooks** (Python/PowerShell) cutting manual response effort by **71%**; delivered dashboards for vulnerability **metrics & trends**.
  - Deployed **WAF, GuardDuty, and Azure Security Center**, enhancing incident detection and reducing response times by 30%.
- Cloud Security Engineer | LTIMindtree, Mumbai, India** Jun 2020 – Mar 2022
- Performed **architecture reviews** & threat modeling; prevented **95%** of critical issues at design time;
  - Embedded **NIST & CIS** security controls in solution architectures, achieving **93% compliance** in security audits.
  - Rolled out Just-In-Time access across **400+ workloads**, reducing **privilege escalation risk by 82%**.

## Selected Projects

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- Multi-Cloud Monitoring Tool (NSA Collaboration) | Albany, NY** Aug 2023 – Jan 2024
- Built AWS/Azure/GCP dashboards with a C# + SQL correlation engine, **boosting anomaly detection by 30%**; mapped detections to **NIST/CIS** controls.
  - Delivered SOC-ready alerting & **playbooks**; achieved **41%** false-positive reduction with iterative tuning.
- Offensive Security Simulation & AppSec Labs | Albany, NY** Aug 2024 – May 2025
- Manual validation** of web/API findings (Burp Suite, Postman) with repro steps and fixes aligned to **OWASP Top 10**.
  - Hardened CI/CD (secrets scanning, policy gates) and executed AD exploitation labs (found **27+** escalation paths) with remediation guidance.

## Education

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- M.S. Digital Forensics & Cybersecurity | University at Albany, SUNY, Albany, NY** May 2025
- GPA: **3.97**
  - Coursework: Secure SDLC, Incident Response, Reverse Engineering Malware, Threat Hunting, Vulnerability Exploitation, Penetration Testing, Cloud Security.

## Certifications

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- AWS Certified Cloud Practitioner
- Azure Fundamentals (AZ-900)
- Azure Administrator (AZ-104)
- CompTIA Security+ (In Progress)
- Ansible Automation Specialist
- AWS Technical Professional