

KAUSHAL KUMAR SINGH

Application Security Analyst | Vulnerability Management | Web & API Security

Delivering enterprise-grade security solutions through advanced application security testing, comprehensive vulnerability management, and strategic incident response

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About Me

I am an Application Security Analyst with one year of experience in securing enterprise applications, APIs, and endpoint infrastructures. At Tech Mahindra, I focus on application risk assessments, penetration testing, and secure code reviews. My work helps organizations find and fix vulnerabilities before they can be exploited. I collaborate closely with development teams to integrate security controls into the software development life cycle, ensuring strong protection while allowing for business agility.

My expertise includes:

- Application & API Security: risk assessments, vulnerability testing, and threat modeling
- Endpoint Security: deploying and managing CrowdStrike Falcon across more than 1,400 endpoints
- Network Security: configuring Palo Alto Next-Generation Firewalls and enforcing USB device control policies
- Linux Security Administration: managing and securing enterprise systems

I hold certifications from (ISC)², Fortinet NSE, and Google, which show my commitment to staying updated in a changing threat landscape. My professional experience also includes significant

Beyond my technical skills, I bring leadership and discipline from my service as an NCC Volunteer, where I hold B and C Certificates, and as a Student Council Member. These experiences have enhanced my teamwork, problem-solving, and decision-making skills, which I use in high-pressure cybersecurity situations.

With a strong passion for protecting digital environments, I continue to deepen my expertise while providing innovative security solutions that help organizations stay strong against new cyber threats.

1

Year in Application Security

1400+

Endpoints Secured

5+

Industry Certifications

Security Operations Metrics



99%

EDR Deployment
Success

1,400+ endpoints
secured



40%

Detection Accuracy
Improvement

IOA/IOC rule
optimization



25%

False Positive
Reduction

Enhanced threat filtering



15

Avg. Response Time
(min)

Critical incident handling



MITRE
ATT&CK



NIST CSF



Cyber Kill
Chain



ISO 27001



OWASP Top
10



CIS
Controls

Professional Experience

Application Security Analyst

Tech Mahindra Ltd

May 2024 - Present | Pune, India

- Perform application risk assessments and security testing, identifying and mitigating vulnerabilities in enterprise web and API environments.
- Integrate secure coding practices into SDLC, reducing security defects and strengthening overall application resilience.
- Lead penetration testing, automated scanning, and compliance audits aligned with ISO 27001 standard.



HITACHI
Inspire the Next

Trainee

Hitachi Systems India Pvt Ltd

- Supported high-priority incident response, ensuring rapid containment of threats.
- Configured firewall and device control policies to harden endpoint security.



Cybersecurity GRC Intern

Skillweed

Mar 2024 - Apr 2024 | Remote

- Designed risk management frameworks and incident response playbooks (NIST, SANS).
- Conducted post-incident forensic analysis to identify weaknesses and recommend improvements.
- Gained hands-on exposure to governance, compliance, and enterprise security standards.

reduction initiatives

- ▸ Developed proficiency in cybersecurity governance principles, regulatory compliance requirements, and industry frameworks that form the foundation of enterprise security programs

Technical Skills

Core Security Skills

Vulnerability Management

Vulnerability Assessment &
Penetration Testing (VAPT)

ISO 27001 / NIST Frameworks

Application Security (Web & API)

Secure Coding Practices

Incident Response & Threat
Analysis

Security Tools & Technologies

CrowdStrike Falcon EDR

Palo Alto Firewalls

Fortinet FortiGate

Burp Suite Professional

Nessus & Qualys

Wireshark & tcpdump

Technical Expertise

Manual Penetration Testing

Endpoint Protection &
Management

Firewall Configuration &
Management

Network Security (TCP/IP, DNS,
SSL/TLS)

Malware Analysis
(Static/Dynamic)

Risk Management

Other Top 10 Recommendation

Security Awareness Training

Projects



TraceQuest: A System Information and Artifact Collection Tool

Windows Live Forensics Tool



Mobile ForenXpert

Android Forensics & Malware Analysis Platform

- ▶ Automates acquisition of critical system artifacts including installed application metadata (names, install dates, publisher details, version numbers)
- ▶ Advanced USB device forensics through registry analysis with localized string resolution for precise device identification
- ▶ Robust Google Chrome history extraction using temporary database copies to prevent data corruption during live acquisitions
- ▶ Features comprehensive error handling, detailed logging, and PDF report generation capabilities for rapid assessment of system compromise while maximizing data integrity for forensic investigators

[Forensics](#)[Windows](#)[Python](#)

- ▶ Integrates automated evidence extraction pipelines for comprehensive data acquisition
- ▶ Real-time malware detection engine leveraging advanced signature-based analysis
- ▶ Identifies malicious applications and security compromises with high accuracy

[Android](#)[Malware](#)[GUI](#)

- Architected secure self-service retail checkout application engineered as hardened edge POS endpoint
- Built within zero-trust architecture for maximum security posture
- Implemented defense-in-depth security controls including multi-factor authentication and role-based access control
- Features encrypted transaction processing to protect sensitive payment data and prevent unauthorized access

[Zero Trust](#)[MFA](#)[POS](#)

Certifications



Certified in Cybersecurity (CC)

(ISC)²

Sep 2025



Google Cybersecurity Professional Certificate

Google

Apr 2024



Junior Cybersecurity Analyst Career Path

Cisco Networking Academy

Apr 2024



NSE 1-3 Network Security Associate



Google IT Support Professional Certificate



Google AI Essentials

Google

Education



Master of Computer Applications (MCA) - Cyber Security

D Y Patil International University, Akurdi, Pune

Jun 2023 - 2025



Bachelor of Computer Applications

Goa University

2020 - 2023



Higher Secondary School (HSS) - Science

St. Andrew's Higher Secondary School

2020

Awards & Recognition

Get In Touch

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Location



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