

# Harpreet Singh

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## Summary

**SOC Level 2 / Cloud Security Engineer** with a proven track record of transitioning from monitoring to high-level incident response and **Detection Engineering**. Expert in **AWS/OCI infrastructure**, performing deep-dive **Root Cause Analysis (RCA)** on escalated threats, and architecting scalable **SIEM/Observability** pipelines using the **ELK Stack and OpenSearch**. Leverages **CCNA-level networking** and **AI-driven security automation** to reduce false positives and harden cloud-native environments.

## Education

I.K.G.P.T.U   Hoshiarpur, PB, India	Graduated June 2024
B.Tech (C.S.E)	CGPA: 8.2

## Core Competencies

- SOC L2 Operations:** Advanced Incident Response, Root Cause Analysis (RCA), Handling Escalations (Phishing, Malware).
- Cloud Security Architecture:** AWS IAM, GuardDuty, WAF, CloudTrail, OCI Observability & DevOps.
- Detection Engineering:** SIEM Design (ELK/OpenSearch), Log Ingestion (Logstash, Data Prepper), Sysmon, GROK patterns.
- Network Security & Automation:** VPC Hardening, Routing (OSPF, EIGRP), Python-based Security Automation.

## Professional Experience

Security Analyst (L2)   Cywarden, India	August 2024 – Present
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- Lead L2 Response & Investigations:** Serve as the escalation point for complex security incidents, performing **Root Cause Analysis (RCA)** for phishing and malware threats across AWS-native environments.
- Architected Cloud SOC Framework:** Designed a 24/7 monitoring framework for multi-tenant AWS environments using **GuardDuty, CloudWatch, and WAF** to provide continuous visibility.
- SIEM Engineering & Optimization:** Deployed and maintained a centralized SIEM on the **ELK stack**, configuring Elastic Agent and Sysmon logging to improve detection coverage and telemetry.
- Observability Pipeline Development:** Implemented a scalable security analytics platform using **OpenSearch and Data Prepper**, integrating APM through efficient log and trace ingestion.
- ETL & Log Enrichment:** Optimized ingestion processes using **GROK for structured parsing**, ensuring high-fidelity alerts for faster incident response.
- Infrastructure Hardening:** Enforced AWS security best practices by implementing granular **IAM policies, security groups, and encryption**.

- Gained hands-on experience in **Vulnerability Assessment (VAPT)**, threat analysis, and Risk Management.
- Evaluated Cloud Security Posture Management (CSPM) and AWS Cloud configurations to identify security gaps.

## Personal Projects and Certifications

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### ➤ Secure Banking System

February 2024-June 2024

- Developed a secure REST API for banking applications, integrating **AES encryption** to protect transaction data and authentication tokens.
- Implemented a custom VPN layer to establish secure, encrypted communication tunnels for all financial data transfers.
- Hardened system architecture, resulting in a **40% reduction in potential security breaches** and improved overall reliability.
- Applied secure coding and cryptographic principles to build and validate financial infrastructure against common web vulnerabilities.

### ➤ GuardianX

July 2024Present

- Engineered a Python-based security tool featuring signature-based virus scanning and automated port scanning to enhance malware protection.
- Optimized detection logic to achieve a **70% reduction in false positives** during testing, ensuring high-fidelity alerting for SOC environments.
- Improved threat identification by 30%, successfully identifying and blocking over 200 distinct malware variants.

### ➤ MULTI-BUILDING NETWORK ARCHITECTURE

Jul 2022-Aug 2022

- Architected and simulated a large-scale university network using Cisco Packet Tracer to ensure high availability and performance.
- Configured and managed servers to centralize network resources and services across multiple physical locations.
- Optimized network routing and switching to achieve seamless connectivity and robust infrastructure design.

## Certificates

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- **SIEM Fundamentals:** Google Chronicle (10/2024 – Present).
- **The Cybersecurity Threat Landscape:** LinkedIn (10/2024 – Present).
- **Python Developer:** HackerRank (10/2023 – Present).
- **Cisco Certified Network Associate:** O7 soln (07/2023 – Present).

- **Oracle Cloud Infrastructure:** 2025 Certified Generative AI Professional.
- **Oracle Cloud Infrastructure:** Certified DevOps Professional.
- **Oracle Cloud Infrastructure:** Certified Observability Professional.

## Technical Skills & Certifications

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- **Cloud & SIEM:** AWS (EC2, S3, RDS, IAM, GuardDuty, CloudTrail, Config, WAF, CloudWatch), Elastic Stack (ELK), OpenSearch, Sysmon, Data Prepper, Logstash, Google Chronicle CSPM.
- **Offensive Security:** Nmap, Burp Suite, Metasploit, sqlmap, Dirsearch, Kali Linux, VAPT.
- **Networking:** Cisco Packet Tracer, Routing Protocols (RIP, OSPF, EIGRP), LAN/WAN Design, Troubleshooting.
- **Languages:** Python, GO, C

## Skills & Extracurricular

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**Soft skills:** Leadership, Quick Adaptability, Quick learner, Problem Solving.

**Interests:** Chess, Current Affairs, Strategic Gaming, Technology Trends, History, Cybersecurity Innovations, Philosophy, Cosmology and the Origins of the Universe

## Languages

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English (Fluent) | Punjabi (Native) | Hindi (Fluent)