

SHIVAM SARASWAT

Product Security Engineer

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PROFESSIONAL SUMMARY

Accomplished DevSecOps and Cybersecurity professional with 3+ years of expertise in architecting enterprise-grade security solutions and driving cloud-native implementations. Demonstrated ability to build and optimize secure pipelines for large-scale environments, develop innovative in-house security tools, and implement cloud security best practices. Proven track record of reducing security risks, streamlining compliance processes, and enhancing developer productivity through innovative tools and workflows. Committed to bridging the gap between development and security to create resilient, scalable, and efficient systems.

EXPERIENCE

Senior Cybersecurity Engineer

PayPal

April 2025 – Ongoing Bengaluru, Karnataka

- Architected Container Security Framework & Security Policies:** Spearheaded unified container-scanning framework and governance model, standardizing vulnerability checks for Docker images across all development teams while designing and enforcing JFrog Xray policies (severity gates, CVE exemptions, whitelists) to achieve 100% compliance and accelerate remediation cycles.
- Orchestrated CI/CD-Native Security Enforcement:** Integrated JFrog Xray container security scans into Harness CI/CD pipelines at both build and deploy stages, automating checks that block non-compliant images and improving vulnerability detection by 50%.
- Led Container Scanning Tool Evaluation:** Directed comparative analysis of industry tools (JFrog Xray, Trivy, Gype) against criteria including detection accuracy, performance impact, cost, and API support—piloting top choice to boost scan throughput without affecting pipeline SLAs.

Security Engineer

Tekion

August 2024 – March 2025 Bengaluru, Karnataka

- Architecting DevSecOps Pipelines:** Architected and implemented comprehensive DevSecOps security scanning pipelines across 2,000+ production repositories, integrating SAST, SCA, Secret Scanning, Container Scanning and Dockerfile Scanning, resulting in 40% reduction in security vulnerabilities.
- DevSecOps Pipelines Migration:** Led the migration of 2,000+ production repositories to GitLab's Pipeline Execution Policy, ensuring seamless transition with zero production disruption.
- Pipeline Optimization & Developer Collaboration:** Optimized pipeline execution time by 35% through workflow and configuration enhancements, while refining pipeline templates based on systematic troubleshooting and developer feedback to improve overall efficiency and developer experience.

EDUCATION

B.Tech in Computer Science and Engineering (Cyber Security)

GLA University, Mathura

May 2022 8.25 CGPA

SKILLS

Security Expertise:

- DevSecOps & AppSec:** SSDLC, Security Automation, Application Security, Cloud Security, Vulnerability Management, Policy as Code
- Security Frameworks:** OWASP Top 10, Threat Modeling, Secure Code Review
- Pentesting:** Web Application Testing, Network Security

Security Tools & Platforms:

- SAST:** Semgrep, CodeQL (GHAS), Bandit
- SCA & Dependency Management:** Dependabot, Renovatebot, SBOM (Syft), Dependency-Track
- Secret Scanning:** Gitleaks, TruffleHog, GitHub Advanced Security, Talisman
- Container Security:** JFrog Xray, Trivy, Hadolint
- DAST & Security Testing:** Nuclei, OWASP ZAP, Burp Suite Professional
- Network & Vulnerability Scanning:** Nmap, Nessus, Wireshark
- Monitoring & Observability:** Elasticsearch, New Relic

Core Technical Skills:

- Programming & Scripting:** Python, Bash, PowerShell, Git
- Cloud & Infrastructure:** Google Cloud, AWS, Docker, Kubernetes (K8s)
- CI/CD & DevOps:** GitHub Actions, GitLab CI/CD, Harness CI/CD
- Databases & APIs:** MongoDB, REST APIs, Swagger, Postman

Product Security Engineer

IKEA

📅 April 2023 – August 2024 📍 Bengaluru, Karnataka

- **Architecting Security Solution & Deployment:** Engineered an in-house Automated Web and API Security Monitoring Solution, reducing external engagement costs by 20% through improved responsible disclosure programs. Orchestrated cloud deployment using GitHub Actions, Cloud Run, and Artifact Registry.
- **SSDLC Automation & Integration:** Key architect for developing "Argos", an organization-wide proactive automated SSDLC maturity model. This includes one-click enablement via platform engineering, instant on-demand security assessment, security maturity score, actionable insights for better decision-making and automated secure template integration for developers.
- **Collaborative Innovation & Pioneering Exploration (PoC):** Spearheaded collaborative R&D initiatives with cross-functional engineering teams to enhance IKEA's product security infrastructure by integrating advanced tools into CI/CD pipelines and prototyping cloud-first security architectures, resulting in a 30% improvement in overall security posture.
- **Automated Cloud Vulnerability Management & Visualization:** Built an end-to-end triage and notification system with centralized dashboard for Google Security Command Center (SCC) that slashed critical-issue response time by 40%.
- **Governance, Controls & Documentation:** Architected Google Cloud access-control policies and optimized vulnerability workflows, while maintaining comprehensive investigation and research documentation to drive informed mitigation decisions.
- **Shadow IT Asset Management:** Resolved numerous DNS dangling issues associated with shadow IT assets, preventing potential subdomain takeovers.
- **Managed Bug Bounty Program:** Investigated and resolved multiple issues reported by external Security Researchers.
- **Security Awareness:** Delivered 10+ engaging sessions with actionable cybersecurity strategies to non-security co-workers.

Security Automation Engineer

BreachLock

📅 March 2022 - April 2023 📍 Noida, UP

- **Cyber Threat Research & Automation Code:** Researched on the latest cybersecurity threats and devised automation code for Vulnerability Scanners and External Attack Surface Management (EASM) platform.
- **Vulnerability Scanner Enhancement:** Enhanced Automated Vulnerability Scanner effectiveness by analyzing and incorporating insights from Pentester-discovered vulnerabilities, ensuring continuous improvement.
- **Security Automation & Testing:** Developed modular and efficient security automation plugins with comprehensive documentation and robust test cases using Pytest to ensure optimal functionality, scalability, and reliability of the Scanner.

ACCOMPLISHMENTS



Best Security Product of the Year
2nd Annual Cyber Security Excellence Awards 2023 by Quantic India



Hackathon Runner Up
IKEA's InnerSource Hackathon 2024



Speaker at Disobey Conference
Selected to present on – "Guarding Your Digital Realm: Heimdall – Your Shield in the World of Web and API Security" at the largest Nordic Security Event in Helsinki, Finland - 2024



Top 1% (God Rank) on TryHackMe
Completed 120+ rooms on DevSecOps, Pentesting, CTFs, OWASP Top 10, etc.

PERSONAL PROJECTS



SeCoRA (Secure Code Review AI Agent)
An AI-powered tool for detecting and remediating security vulnerabilities in codebases

PUBLICATIONS

👥 Conference Proceedings

- A. Tiwari, S. Saraswat, U. Dixit, and S. Pandey, "Refinements in zeek intrusion detection system," in *2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS)*, vol. 1, 2022, pp. 974–979. DOI: 10.1109/ICACCS54159.2022.9785047.

CERTIFICATIONS

- **EC-Council** - Certified Ethical Hacker (Practical)
- **IBM** - Cyber Security Graduate
- **PentesterLab** - Unix Badge
- **Fortinet** - NSE 1 Network Security Associate

LANGUAGES

English
Hindi

