

Sagnik Haldar

📍 India ✉️ sagnikh.13@gmail.com ☎️ +91 7679843155 📺 in/hsagnik

SUMMARY

Product Security Engineer specialized in SaaS and web application security, offensive testing, and OWASP Top 10 vulnerability assessment. Experienced in Secure SDLC, integrating SAST, SCA, and DAST tools into CI/CD with automated security workflows.

EXPERIENCE

Product Security Engineer – I

HighRadius

January 2025 – July 2025, Hyderabad, IN

- Led end-to-end penetration testing of SaaS applications and APIs, uncovering **10+ critical vulnerabilities** leading to a **25% reduction in the overall attack surface**.
- Developed robust security automation scripts in Python and Bash, enhancing the effectiveness of SAST and SCA tools (Checkmarx, JFrog, Snyk, Semgrep, Burp Suite), resulting in a **60% boost in scan accuracy** and a **50% reduction in false positives**, significantly improving developer efficiency and remediation turnaround.
- Integrated GitGuardian into CI/CD pipelines to detect and prevent hardcoded secrets early in the development lifecycle, driving a successful **Shift Left security strategy** and improving secret detection coverage across all repositories by 90%.
- Collaborated cross-functionally with product, and DevOps teams to enforce security best practices in architecture design and code, contributing to stronger security baselines across critical services.

Associate Product Security Engineer – I

HighRadius

July 2024 – December 2024, Hyderabad, IN

- Performed targeted manual penetration testing on SaaS platforms and APIs, uncovering critical misconfigurations aligned with the **OWASP Top 10**, and delivering actionable remediation plans to engineering teams.
- Enforced secure coding standards across 30+ web application modules, achieving a **30% reduction in high and medium-risk vulnerabilities** over six months using SAST and SCA tools (Checkmarx, Snyk, Semgrep, SonarQube).
- Optimized vulnerability scanning automation workflows, cutting manual intervention and **reducing monthly operational costs by 25%** through streamlined CI/CD integrations.
- Integrated SAST and SCA tools (Checkmarx, JFrog, Semgrep) seamlessly into the SDLC, **improving detection accuracy by 85%** and significantly reducing security debt during development phases.

Product Security Intern

HighRadius

October 2023 – June 2024, Hyderabad, IN

- Led scheduled vulnerability assessments (weekly and monthly), identifying critical weaknesses across infrastructure and application layers to maintain robust security posture.
- Enhanced Checkmarx SAST accuracy by 50% by writing custom queries, significantly reducing false positives in secure code scans.
- Built a centralized secure coding knowledge base, curating 100+ best practices and reusable secure code snippets adopted by 7+ engineering teams, accelerating vulnerability remediation by 40% and reducing repeat security issues by 30%.
- Collaborated cross-functionally with product and engineering teams to triage and remediate security vulnerabilities, offering strategic guidance on secure coding practices and remediation strategies.

PROJECT

PyIntruder CLI – A Powerful Command Line Web Fuzzing Tool

December 2024 – Present

- Developed **PyIntruder CLI**, an open-source, high-speed CLI fuzzing tool in Python for automating web application and API security testing.
- Optimized performance to deliver **2x faster request dispatch** than traditional tools; inspired by request of **OSCP practitioners**.
- Built core modules for **multi-threaded fuzzing**, response analysis, and automation-ready usage, enabling detection of vulnerabilities such as **XSS, IDOR, SSRF, and broken auth**.
- Recognized at **DEFCON 33 – AppSec Village**, with a hands-on session with live attack scenario design and demo.

EDUCATION

Bachelor of Technology in Computer Science and Engineering

Maulana Abul Kalam Azad University of Technology (Formerly WBUT) • Kalyani, IN • 2024 • 8.63

CERTIFICATIONS

EWPTX

INE • 2024

- Certified in Web Application Penetration Testing.

Certified AppSec Practitioner

The SecOps Group • 2023

- Certified in Application Security (as Practitioner)

SKILLS

SaaS Security: SaaS penetration testing, API security testing

Offensive Security & Penetration Testing: Manual penetration testing, attack surface mapping

Application Security Testing (SAST & DAST): Checkmarx, Semgrep, SonarQube, Burp Suite, OWASP ZAP

CI/CD & DevSecOps: Jenkins, GitGuardian (for DevSecOps pipeline integration)

Scripting & Automation: Python, Bash, Go (for security automation, custom tooling, exploit development, and CI/CD security integrations)