

Anirudh Makkar

Application Security Engineer

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📍 Gurgaon, India

Profile

Application Security Engineer with 7+ years of experience building and leading security programs for cloud-native platforms processing sensitive PII. Hands-on across VAPT, secure architecture reviews, AI/LLM security testing, DevSecOps integration, and offensive security research across AWS and GCP. Track record of identifying complex vulnerabilities, building AppSec programs from the ground up, and embedding security throughout the SDLC without slowing delivery.

WORK EXPERIENCE

01/2026 – Present
Delhi, India

Senior Security Engineer

Atlys India Pvt. Ltd.

Leading the establishment of the company's Application Security program for a cloud-native platform processing sensitive PII and government documentation.

- Built a centralised vulnerability management platform from scratch, consolidating findings from automated scanners, manual testing, and external researchers into a unified triage and tracking system for engineering and leadership.
- Designed and deployed automated security scan orchestration across the full microservices fleet, covering secrets detection, SAST, and dependency auditing with weekly delta reporting.
- Developed an AI-assisted penetration testing agent applying OWASP Top 10 for LLM Applications principles to autonomously probe authentication, authorization, and injection weaknesses across API and AI-integrated surfaces.
- Established the company's external bug bounty program, managing end-to-end triage, severity classification, and coordinated disclosure.
- Led a full PII and sensitive data inventory across internal services as part of DPDP Act and GDPR compliance readiness, identifying critical gaps in data retention and third-party exposure.

08/2024 – 12/2025
US, Remote

Security Engineer III

Certus Cybersecurity

Delivered application security consulting across financial services, SaaS, and large-scale internet platforms, supporting security initiatives throughout the software development lifecycle.

- Performed application penetration testing, secure code reviews, and threat modeling for large enterprise applications across multiple client environments.
- Contributed to DevSecOps improvements by developing security scripts integrated into CI/CD pipelines to detect rate-limiting and authentication weaknesses.
- Supported organizations in strengthening cloud security configurations across AWS and GCP services including IAM policies and access controls.

11/2021 – 07/2024
Pune, India

Senior Security Engineer

ZS Associates

- Performed application penetration testing and attack surface analysis across Java, Python, and JavaScript services.
- Automated SAST and DAST triage using Python and shell scripting, reducing noise and improving remediation velocity by 25%.
- Defined secure development practices and reusable security patterns (paved roads) to prevent recurring vulnerability classes.

- Worked closely with developers to remediate OWASP Top 10, CSRF, SSRF, XSS, SQLi, and authorization logic flaws.

02/2019 – 10/2021
Gurugram, India

Software Quality Analyst - Security

Kellton Tech Solutions Limited

- Conducted Web and Mobile penetration testing and secure code reviews across Python, JavaScript, and C# applications.
- Managed 40+ client projects independently, ensuring consistent delivery and compliance with security standards.

SKILLS & TOOLS

Application & Web Security:

VAPT, Secure SDLC (SSDLC), Threat Modeling (STRIDE), Source Code Review, Penetration Testing, Attack Surface Analysis, OWASP Top 10, OWASP API Security Top 10, OWASP ASVS, API Security, Authentication & Authorization Security, CVSS Scoring

Cloud & Infrastructure:

AWS, GCP, Kubernetes Security, Container Security, IAM Hardening, IaC Security (Terraform, Checkov), Wiz, Image Hardening, PII Data Protection Controls

Mobile & Scripting:

Mobile Security (Android, iOS), Frida, MobSF, Python, Bash

DevSecOps & Tools:

SAST, DAST, SCA, CI/CD Security Integration, Software Supply Chain Security, Burp Suite, Semgrep, Snyk, Checkmarx, CodeQL, Trivy, Acunetix, Dependency Track

AI & Emerging Security:

OWASP Top 10 for LLM Applications, AI/GenAI Security Testing, LLM Penetration Testing, Prompt Injection, AI-Assisted Security Tooling

EDUCATION

2015 – 2019
Gurgaon

B.Tech

Dronacharya College of Engineering

CERTIFICATIONS

- eWPTX - eLearn Web Application Penetration Tester eXtreme v2
- CEH - Certified Ethical Hacker

SECURITY RESEARCH & CVE DISCLOSURES:

CVE-2026-7665 · CVSS 5.3 Medium

Unauthenticated information exposure in Essential Addons for Elementor (1M+ active WordPress installs). Insufficient authorization in the ajax_load_more handler exposed private, password-protected, and draft post content.

Bug Bounty Hall of Fame:

Tesla, Philips, Under Armour, BBC, Dell Technologies

Responsible Disclosure Recognition:

Government of India - NCIIPC, Department of Homeland Security, Unilever, Mastercard, Monash University

INTERESTS/HOBBIES

- Security Research
- Badminton
- Travelling