Adham Adel Makroum

Offensive Security Engineer | Penetration Tester

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SUMMARY

Offensive Security Engineer with strong hands-on experience in penetration testing across multiple domains, including Web Applications, APIs, Android Applications, Linux environments, and Active Directory infrastructures. Experienced in testing a wide range of real-world applications, including fintech apps, social media apps, and business-critical enterprise solutions.

EXPERIENCE

Offensive Security Engineer

Asfaleia   Apr 2025—Present

- Conducted comprehensive penetration testing for web applications, APIs, Android Applications and Network infrastructures (Linux and Active Directory Environments).
- Specialized in testing real-world applications, including FinTech apps and social media apps, identifying critical vulnerabilities and providing tailored mitigation strategies.
- Performed vulnerability assessments using industry-standard tools and manual techniques to identify security weaknesses and recommend remediation.
- Developed detailed security assessment reports, including risk analysis, exploitation findings, and mitigation strategies tailored to business needs.
- Collaborated with development and infrastructure teams to support secure architecture design and implement security best practices.
- Stayed up-to-date with the latest security threats, vulnerabilities, and technology trends to adapt testing methodologies accordingly.

BugBounty Hunter

HackerOne   2023— Present

- Found some bugs on Hackerone and Bugcrowd like XSS, Crlf injection, Open Redirect, information disclosure to secret data.
- Acknowledged by Adobe, Disney, Sonder, State of California VDP, Stryker and other private programs.

Software Engineer

Arab Security Group   Sep 2023—Jan 2024

- Automated tasks in managing and monitoring Radars, collecting data from them, and analyzing them by writing scripts and programs using Python.
- Provided security consultations to enhance company security.

Certifications

Certified Red Team Professional (CRTP) - Altered Security
Web Application Penetration Tester eXtreme - eLearnSecurity

EDUCATION

Bachelor's Degree in Information Technology, Faculty of Computer and Information Sciences

University of Mansoura · 2023

Strengths

Web Application Penetration Testing

- Proficient in web application and API penetration testing with hands-on experience in real-world applications (e.g., FinTech, social media), and covering OWASP Top 10 vulnerabilities.
- Strong expertise in both Client-Side and Server-Side vulnerabilities, including complex issues like business logic flaws and API security weaknesses.
- Deep understanding of various web technologies and frameworks to effectively identify and exploit configuration and code-level weaknesses.

Android Application Penetration Testing

- Proficient in Android application penetration testing, including static/dynamic analysis, reverse engineering, Hooking, and identifying real-world vulnerabilities in line with OWASP MASVS.
- Specialized experience with applications built using modern frameworks like Flutter, React Native, and native Java.
- Advanced techniques for bypassing security controls, including Root Detection Bypass, RASP, and advanced SSL Pinning Bypass.

Network Penetration Testing

- Proficient in network penetration testing across Linux and Windows (including Active Directory) , with hands-on experience in enumeration, exploitation, privilege escalation, and post-exploitation.
- Advanced skills in Active Directory (AD) infrastructure assessment, including common attack vectors like Kerberoasting, AS-REP Roasting, Pass-the-Hash, and exploiting AD service misconfigurations.
- Extensive experience with Linux environments and diverse network services, demonstrating the ability to identify and exploit vulnerabilities across various protocols and applications.

Honors & awards

- 2nd Place in ICMTC Final CTF 2023
- 10th Place in Arab Regional Cybersecurity CTF
- 9th Place in Arab Security Cyber WarGames Finals 2022
- 5th place in july ctf at CyberTalents

PROJECT

Web Application Firewall based on Deep Learning
Graduation project focusing on web application security

- Developed a WAF based on deep learning to check IP reputation using 3rd party services.
- Detects SQL injection and XSS using Deep Learning Techniques like CNN algorithm.
- Identifies OWASP TOP 10 vulnerabilities using advanced regex.
- Integrated with elasticsearch to monitor logs easily.

Training / Courses

- API Security Fundamentals - APIsec University
- OWASP API Security Top 10 and beyond! - APIsec University
- API Penetration Testing - APIsec University
- Offensive Security Certified Professional (OSCP) - Offensive Security
- Windows Privilege Escalation for Beginners – TCM
- Linux Privilege Escalation for Beginners – TCM
- eLearnSecurity Mobile Application Penetration Tester (eMAPT) – eLearnSecurity
- Advanced Android Hands-on Exploitation – Attify
- Android App Hacking - Black Belt Edition
- Advanced Mobile PenetrationTesting Android - Security Meter
- Mobile Application Penetration Testing – TCM
- eLearnSecurity Junior Penetration Tester (eJPT) – eLearnSecurity
- SANS SEC 401: Security Essentials - Network, Endpoint, and Cloud
- Cisco Certified Network Associate (CCNA)