Hamza Elhadidy

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Profile

Junior Penetration Tester with hands-on experience in discovering and exploiting vulnerabilities across web, API, and mobile application environments. Skilled in testing for OWASP Top 10, authentication flaws, business logic issues, API misconfigurations, and Android application security vulnerabilities. Experienced in performing security assessments, vulnerability analysis, and exploitation using tools such as Burp Suite, Postman, Frida, Ghidra, JADX, and automated scanners.

Strong understanding of reconnaissance techniques, reverse engineering, and runtime analysis. Possesses practical experience in Android application security, including SMALI code modification, runtime hooking, and network traffic analysis. Actively engaged in bug bounty platforms, with a focus on identifying real-world vulnerabilities and producing clear, professional security reports. Continuously expanding expertise in mobile and network penetration testing.

Education

Damietta University **Sep. 2022 – June 2026**
Level 4, Computer science

Experience

Junior Penetration Tester

July 2025 – Present

- Performed web and mobile application penetration testing, including static and dynamic analysis of Android applications.
- Conducted authenticated and unauthenticated testing for web and API environments, identifying vulnerabilities such as SQL injection, XSS, CSRF, business logic flaws, and insecure data storage in mobile apps.
- Reverse engineered Android APKs using tools like JADX and Ghidra; analyzed and modified SMALI code for security testing and application logic manipulation.
- Executed runtime application instrumentation and hooking using FRIDA to test security mechanisms and exploit vulnerabilities.
- Performed network traffic analysis for mobile applications, including intercepting and inspecting encrypted communication, and understanding certificate pinning mechanisms.
- Created detailed proof-of-concept reports with recommended remediation steps.
- Conducted vulnerability assessments in various environments and collaborated with developers to improve overall application security posture.

Freelance / Bug Bounty Platforms

- Performed web and API penetration testing based on OWASP Top 10 vulnerabilities.
- Reported some bugs on platforms like HackerOne, Bugcrowd
- Conducted vulnerability assessments and wrote detailed proof-of-concept reports.

Technical Skills

Programming & Scripting:
Python, C, C++, Java, JavaScript, Java, Bash, HTML, CSS

Web & API Security:
SQL Injection, XSS, CSRF, Authentication & Authorization flaws, OWASP Top 10, Business Logic, web cashe vulnerabilities, websockets, Testing, Web vulnerability labs (PortSwigger – 100+ labs), CTF challenges (RootMe.org)

Mobile Security:
Android reverse engineering, SMALI code modification, Runtime hooking with FRIDA, APK decompilation (JADX,Apktool) , Ghidra, Network traffic analysis, Certificate pinning bypass

Tools & Frameworks:
Burp Suite, Postman, Ghidra, Frida, JADX,Apktool Nmap, Metasploit, Automated vulnerability scanners

Certifications:

- **eWPTX (Self-Study, no certificate)**
- **OSCP (Self-Study, no certificate)**
- **CCNA**
- **Android App Security (Have Certificate)**