

Mykola M

Middle Penetration Tester/Application Security Engineer

SUMMARY

- Experienced software engineer with a strong background in computer science and a master's degree in Computer Science from the National Technical University. - Proficient in multiple programming languages including Python, PHP, C#, C/C++, Java, and JavaScript. - Skilled in web and mobile security, with expertise in conducting vulnerability assessments, penetration testing, and security code review. - Familiar with industry-standard security tools such as Burp Suite, Nessus, OpenVas, nmap, and Metasploit. - Knowledgeable in methodologies, principles, and patterns of software development, including SDLC and software development best practices. - Strong problem-solving and analytical skills, demonstrated through the ability to identify and exploit vulnerabilities and develop custom payloads. - Excellent communication and collaboration skills, working effectively within cross-functional teams and producing comprehensive reports based on findings.

TECHNICAL SKILLS

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|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Technical Skills | Penetration testing |
| Programming Languages | C, C#, C++, Java, JavaScript, PHP, Python |
| Security | Burp Suite, Information Security, Mobile Security, Nessus, Nikto, OpenVas, Security Code Review, Security Source Code Review, web application security, Web Security, Wireshark |
| Industry Domain Experience | Information Security |
| QA, Test Automation, Security | Acunetix, AFL Service Solutions, Armitage, Burp Suite, dnSpy/ilSpy, Fiddler, Fuzzing, Ghidra, libFuzzer, Metasploit, MobSF, MSTG, Nessus, Network Scanning, Nikto, Nmap, OpenVas, Penetration testing, pwntools, Threat Modeling, Vulnerability Assessment, Wireshark, Yara |
| Scripting and Command Line Interfaces | Bash |
| Virtualization, Containers and Orchestration | Docker |
| Version Control | Git |
| Deployment, CI/CD & Administration | Jenkins, SonarQube |
| Operating Systems | Linux, Windows |

WORK EXPERIENCE

Penetration Tester, Penetration Testing (NDA)

Duration: 08/2021 - present

Summary:

- Perform vulnerability assessment, penetration testing (infrastructure and web), and security code review
- Collaborate with the team on threat modeling
- Use the OWASP WSTG and ASVS checklists
- Perform manual penetration testing of web applications and network scanning
- Write reports based on findings

Responsibilities: Perform vulnerability assessment, penetration testing, security code review, collaborate on threat modeling, manual penetration testing, write reports

Technologies: Burp Suite, Nessus, OpenVas, nmap, nikto, nuklei, Linux

Information Security Specialist, Information Security (NDA)

Duration: 08/2020 - 08/2021

Summary:

- Perform vulnerability assessment, penetration testing (infrastructure and web), and security code review
- Work closely with the blue team to fix security issues
- Plan and perform emulation of external and internal attacks against bank infrastructure
- Collaborate with the team on threat modeling
- Perform manual penetration testing of web applications and network scanning
- Write reports based on findings
- Define security requirements for mobile applications and infrastructure
- Create custom undetectable payloads to get a reverse shell

Responsibilities: Perform vulnerability assessment, penetration testing, security code review, collaborate on threat modeling, manual penetration testing, write reports, define security requirements, create custom payloads

Technologies: Burp Suite, Acunetix, MobSF, Nessus, OpenVas, nmap, nikto, nuklei, metasploit, armitage, Linux, Windows

Security Researcher, NDA

Duration: 04/2018 - 08/2020

Summary:

- PoC exploits for CVE, research how to backport security patches, backport security patches to PHP interpreter
- Research functionality of signing packages and found a bug with the verification of signatures with RPM

Responsibilities: Develop PoC exploits, research backporting security patches, backport security patches, research package signing functionality, bug fixing

Technologies: Python, Jenkins, rpm specs, Bash, C, SonarQube



EDUCATION

- **Master degree in Computer science**
National Technical University
06/2020 – 12/2021
- **Bachelor degree in Computer science**
National Technical University
09/2018 – 06/2020
- **Junior software engineer**
olytechnic College
09/2014 – 06/2018

CERTIFICATION

- **Hacktory Web Security Professional**
- **CompTIA Pentest+ (Ethical Hacking) Course & Practice Exam**
- **TryHackMe Web Fundamentals**
- **Tryhackme SOC (Level 1) Finished PMAT from TCM Security Academy**

