

Matthew Zamat, Cybersecurity Manager

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PROFILE

Cybersecurity professional with a background in vaccine development. Proven track record of identifying critical vulnerabilities in hardened targets. Passionate about web, API, and mobile security, particularly around access control and authentication. Currently serving as an Offensive Cyber Operator with SIXGEN, supporting high-impact government and commercial cybersecurity missions. Lifelong learner with deep experience in red teaming, penetration testing, bug bounty, and vulnerability research.

EMPLOYMENT HISTORY

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| Aug 2025 | Application Security Manager, OnDefend District of Columbia <ul style="list-style-type: none">• Performed advanced web and mobile application penetration tests, simulating real-world adversarial techniques to identify and validate vulnerabilities.• Conducted secure code reviews in Java, Python, and JavaScript applications, uncovering logic flaws and insecure patterns early in the SDLC.• Integrated and operated SAST, DAST, and SCA tooling within CI/CD pipelines to automate detection of security defects.• Mapped findings to adversarial tradecraft frameworks (MITRE ATT&CK, OWASP Top 10, CWE) to provide actionable remediation guidance.• Validated and hardened authentication, authorization, and session management controls across enterprise applications. |
| Jan 2025 — Aug 2025 | Offensive Cyber Operator, SIXGEN Arlington <ul style="list-style-type: none">• Performed internal and external penetration testing to identify vulnerabilities and recommend mitigation strategies across externally exposed networks.• Conducted phishing assessments and vulnerability risk assessments, simulating adversary behavior to evaluate organizational resilience.• Utilized advanced offensive tools including Cobalt Strike, Metasploit, Burp Suite, Powersploit, and Nmap to conduct red team engagements.• Wrote custom scripts and craft payloads for assessments.• Coordinates assessment equipment and collaborate across delivery teams to support cyber operations.• Supported compliance efforts aligned with FISMA and NIST 800 series standards.• Engaged in continued learning and contribute to a collaborative and knowledge-sharing culture. |
| Jan 2023 — Jan 2025 | Red Team Penetration Tester, Synack <ul style="list-style-type: none">• Conducted comprehensive security audits and penetration tests to identify and address any security gaps or vulnerabilities, for both web applications and source code review.• Executed intricate security tests, using cutting edge tooling and personal/open source scripts.• Summarize findings in detailed and easy to comprehend reports• Collaborated with other researchers and penetration testers, and engaged in/led peer review.• Used various tools, such as Burp Suite Pro, Nessus, Acunetix, Postman, SoapUI, etc... on a daily basis to perform my testing. |
| Jun 2019 | Security Researcher, Bugcrowd/Hackerone <ul style="list-style-type: none">• Security researcher primarily hunting on the Bugcrowd platform with over 300 accepted vulnerabilities, many of which being "Critical" or "High" severity.• Reported and rewarded for multiple "P1 Critical" level vulnerabilities on hardened programs such as Square, Cash App, and FIS.• Consistently in the Top 10 researchers on a monthly basis. Currently ranked #3 for the month of February. |
| Jun 2021 — Jan 2023 | Scientist - Upstream Process Development, Novavax Gaithersburg <ul style="list-style-type: none">• Identified and resolved complex technical problems in both manufacturing and process development, and as appropriate, performed bench-scale experiments to support process development, generate robustness data, develop new technologies, and resolve manufacturing deviations.• Maintained multiple types of bioreactors from set up and inoculation to harvest, troubleshooting unexpected problems along the way.• Designed and executed process development studies to improve cell culture feeding strategies.• Hands-on experience working in a cell culture lab, to include cell culture expansion, virus production, and protein production in shaker flasks as well as bioreactors. |

- Carried out statistically defined design of experiment (DOE) studies to develop/optimize current processes, ensuring a phase-appropriate, consistent, high-yielding, and scalable upstream process.

Jan 2021 — May 2021

Associate Scientist II - Analytical Development, Catalent Pharma Solutions

Baltimore

- Developed, drafted, qualified, and executed various analytical methods/testing on AAV samples to include Titer/Residual ddPCR, Titer/Residual RT-ddPCR, q-PCR, RT-qPCR, and ELISA on in-process PD samples as well as GMP Drug Substance samples.
- Executed testing in an efficient and cGMP compliant manner.
- Represented my department acting as a liaison in client meetings and inter-department meetings to ensure all needs are met.

Jun 2019 — Jan 2021

Associate Scientist I - Analytical Development, Catalent Pharma Solutions

Baltimore

- Engaged with colleagues and trainers to grasp the fundamental analytical methods.
- Worked closely with major vendors to ensure equipment calibration and maintenance was done in a timely manner.
- Facilitated various projects such as freezer organization and reagent inventory/ordering.

Aug 2015 — Present

Firefighter/EMT, Germantown Volunteer Fire Department

Germantown

- Tasked with the responsibility of protecting life and property on emergency medical dispatches along with fire emergency dispatches.
- Performed emergency diagnostic and treatment procedures, such as stomach suction, airway management, or heart monitoring in a stressful/ever changing environment.

EDUCATION

Aug 2015 — May 2019

B.S. - Neurophysiology, University of Maryland, College Park

College Park

- President - Alpha Tau Omega Fraternity
- Teaching Assistant - Mammalian Physiology Lab
- Resident Assistant
- Club Wrestling

CERTIFICATIONS

Offensive Security Certified Professional (OSCP)

Certified Red Team Operator (CRTO)

LANGUAGES

English	Native speaker	French	Highly proficient
Arabic	Native speaker		