

Quentin Mayo PhD

Senior Cybersecurity Engineer

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Application security engineer with experience building security programs, reducing vulnerability risk, and helping developers resolve findings through automation. Background spans consumer technology and financial services, with doctoral research in vulnerability detection. Focused on practical security controls that fit how engineering teams work.

EXPERIENCE

Pinterest

March 2024 - Present

Senior Security Engineer

- Built a vulnerability management program spanning 700+ unique internal and public repositories across advertising, user engagement, and internal tooling; partnered with engineering teams on remediation.
- Built auditing, logging, and monitoring for bastion access to production resources, supporting incident response and impacting 2,000+ engineers.
- Build automation to enable developers to act on security findings and make security workflows easier to use.
- Triage and validate Bugcrowd reports, assess reported issues, and work with development teams on remediation.
- Work with GitHub Advanced Security, Snyk, Tenable, and Flare across cybersecurity initiatives.

Nextdoor

August 2020 - December 2023

Senior Security Engineer

- Built the application security program for a cloud-native social platform operating in 11 countries. Partnered with the CISO to define the roadmap, tooling, reporting, and priorities as the company prepared for its IPO.
- Correlated 14,000 alerts from Wiz, Checkmarx, GitHub, Fossa, and open-source tools into five remediation patterns using Python; eliminated 97% of critical vulnerabilities in one quarter.
- Migrated SAST from Checkmarx to GitHub Advanced Security with centralized configuration and Jira integration, improving developer notification and saving \$300,000 annually in SaaS costs.
- Led the bug bounty program and coordinated remediation of cross-site scripting, insecure direct object references, and privacy issues. Automated vulnerability and secret checks in pull requests.

EXPERIENCE CONTINUED

Federal Reserve Bank of New York

August 2017 - August 2020

Application Security Engineer

- Automated vulnerability reporting and coordinated findings with the Treasury, Board of Governors, and Federal Reserve Banks to support remediation.
- Performed application security assessments, vulnerability scans, risk analysis, and threat modeling for critical systems.
- Worked with cross-functional teams on security incident response and provided advisories on emerging threats, vulnerabilities, and defensive practices.

RESEARCH

University of North Texas

August 2015 - December 2018

Doctoral Researcher

- Built a machine learning engine to identify likely recurring OpenSSL vulnerabilities by analyzing Git commit history with scikit-learn and benchmarking algorithms against SAMATE.

University of North Texas

August 2012 - August 2015

Master's Researcher

- Researched combinatorial techniques for test suite prioritization to improve application testing.

EDUCATION

PhD in Computer Science and Computer Engineering | University of North Texas | 2018

Dissertation: Security Pattern-Based Vulnerability Detection using Static Analysis

Master's in Computer Science and Computer Engineering | University of North Texas | 2015

BS in Computer Science | Jacksonville State University | 2012

Security concentration; mathematics minor

CERTIFICATIONS

GIAC: GWAPT, GWEB, GCSA | CompTIA: Security+, PenTest+

AWS Certified Cloud Practitioner; AWS Certified Solutions Architect - Associate

TECHNICAL FOCUS

Security: Application security, vulnerability management, threat modeling, SAST, DAST, SCA, bug bounty operations, cloud security, incident response, DevSecOps

Tools: GitHub Advanced Security, Snyk, Tenable, Flare, Bugcrowd, Burp Suite, Semgrep, Wiz, Okta, Splunk, Fossa, Jira

Engineering: Python, PowerShell, JavaScript, SQL, Java, AWS, GCP, Kubernetes, Linux, CI/CD