

Zhongyang Zhu

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Technical Proficiencies

Certifications: Security+, AWS Certified Cloud Practitioner, Burp Suite Certified Professional (*in progress*)

Languages: Python, Javascript, Java, C, Bash

Security Skills & Tools: SAST & DAST, Web Vulnerability Remediation, Threat Modeling, Internal Penetration Testing | Burp Suite, Scripting & Automation (*Python/Bash*)

Miscellaneous Interests: IoT-capable vehicles, bug bounties, video games and FPS e-sports, weightlifting, Quidditch

Experience

Verisk | *Jersey City, NJ*

Application Security Specialist | *Mar 2021 - Present*

- Restructured enterprise application architecture review process to implement and enforce vulnerability scanning and remediation before final board review, eliminating meetings regarding vulnerability scans after the final review - thus increasing efficiency of the enterprise security team
- Piloted threat modeling effort to selected Verisk applications, based off the PASTA framework which includes architecture review, technology enumeration, attack trees, and network, data, and trust diagrams
- Socialized developer cybersecurity training to the enterprise and member companies; metrics demonstrated a positive correlation between training participation and the fewer number of SAST & DAST findings
- Contributed to a major restructure of code repository architecture which allowed a WAF to be implemented, versus the previous architecture which made it impossible to utilize a WAF to protect the repositories
- Managed SAST and DAST solutions and integrated them into member company development processes where possible, and manually reviewed and validated findings, as well as contributing to vulnerability remediations
- Performed an internal application penetration test to fulfill an internal audit requirement, which involved the test itself, the reporting process and delivery, and the follow-up remediations and re-test
- Trained developers to use basic features of Burp Suite (as a fun side project), such as Burp Proxy, Repeater, and Intruder, which benefited their devops and testing capabilities

Application Security Consultant | *Oct 2019 - Mar 2021*

- Created and deployed a software assurance maturity model for Verisk and its 60+ member companies, enabling management, quantification, and metrics development of enterprise application security
- Helped design Incident Response workflows and developed scripts in ServiceNow, which automated parts of the IR process to increase efficiency and productivity for SOC security analysts
- Spearheaded a project to strengthen Verisk's external attack surface, utilizing vulnerability management tools and OSINT, resulting in the patching of recurring critical vulnerabilities
- Built application security metrics into PowerBI, allowing management and monitoring of enterprise and member company statistics, such as training participation and vulnerability finding trends
- Developed various in-house scripts, such as a Python Lambda function to connect the WAF solution to AWS S3 for logging and auditing functionalities

IBM | *Research Triangle Park, NC*

Security Developer Intern | *Jun 2019 – Aug 2019*

- Automated majority of IBM's asset vulnerability publication process (PSIRT) by developing a REST handshake between ServiceNow and Content Management Systems (Drupal and WordPress)
- Developed in an Agile team, presenting biweekly deliverables to executives and stakeholders

NYU Tisch | *New York, NY*

Computer Support Technician Assistant | *Jun 2018 – Mar 2019*

- Deployed and troubleshooted computer software and hardware across school campus, working extensively with both Windows and Mac operating systems and applications
- Managed service desk and responded promptly and efficiently to user ticket queues, emphasizing clear communication to users with various levels of technical knowledge

Education

- **New York University** | B.A. Computer Science, Cybersecurity Minor, GPA (3.45/4.0) | *Aug 2016 – May 2020*