

Jared Stemper

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EXPERIENCE

Offensive Security Engineer <i>TikTok USDS</i>	September 2024 – Present New York, NY
<ul style="list-style-type: none">• Architected & deployed a distributed, event-driven microservices platform using Golang, Kafka, & Redis, achieving a 98% reduction in runtime for telemetry collection across millions of nodes.• Engineered an extensible, decoupled analysis layer with Open Policy Agent (OPA) identifying 2,000+ control gaps in MVP that provided continuous validation & automated regression testing against vulnerabilities.• Orchestrated CI/CD pipelines for complex, multi-system deployments & developed custom automation tooling, such as an API-to-Go code generator that accelerated offensive testing workflows.• Led systemic vulnerability research across production networks and bespoke applications, uncovering critical flaws in complex authentication flows and custom business logic.	
Offensive Cybersecurity Consultant <i>RSM US LLP</i>	July 2021 – July 2024 Chicago, IL
<ul style="list-style-type: none">• Performed red team, physical penetration, & network penetration testing as a technical lead of the close access and network exploitation teams.• Mentored and led testing across web application, LLM/AI models, wireless network, social-engineering, cloud penetration testing, & configuration review assessments (AWS).• Developed Python and Tmux automation framework to streamline network penetration testing organization & automating attacks; reducing start-up time by 85% for testers.• Built modular scanner and reporting utility with Python and Docker to asynchronously run security tooling, including AWS configuration and code review, before consolidating output into standardized findings for reporting.• Created a long-range RFID badge cloner using microcontroller devices with live credential reading through a Raspberry Pi wireless AP.• Provided actionable remediation recommendations to client executives by delivering breach vector reports, enabling risk reduction & minimizing liability exposure for Fortune 10 technology companies, Fortune 500 financial institutions, & private clients.	
Security Software Engineering Intern <i>Synopsys</i>	May 2020 – Dec 2020 Bloomington, IN
<ul style="list-style-type: none">• Automated AB-testing analysis through Python scripting report comparison, resulting in a 40% reduction in manager analysis time.• Aggregated assessment data across Netsparker, AppScan, & BurpSuite through Jira & PostgreSQL, facilitating tracking of vulnerability trends.• Designed & implemented an automated Tableau storyboard for senior managers & C-level to track trends across assessments.	
Penetration Security Consulting Intern <i>RSM US LLP</i>	Jun 2019 – Aug 2019 Chicago, IL
<ul style="list-style-type: none">• Performed assisted network and web application penetration testing on client engagements.• Developed Visual Basic macros & Python scripts for automating drafting/draft handling in Excel.• Measured client compliance within NIST CSF assessments through direct communication with key stakeholders.	
Undergraduate Instructor: Intro. to Python Programming <i>Indiana University</i>	Sep 2018 – Jun 2020 Bloomington, IN
<ul style="list-style-type: none">• Developed & maintained Python scripts to facilitate autograding of 200+ students.• Led and assisted instruction for student groups of 20-45 through 55 exercises & labs regarding Python.	

EDUCATION

B.A. in Computer Science <i>Indiana University</i>	Aug 2017 – May 2021 Bloomington, IN
<i>Relevant Courses: Data Structures, Machine Learning, Relational Databases, Networking, C and Unix, Discrete Mathematics, Linear Algebra</i>	

TECHNICAL SKILLS

Languages: Golang/Go, Python, C/C++, SQL, JavaScript, HTML/CSS, Unix Bash
Systems/Frameworks: OPA, RDS, Kafka, Redis, Hertz, FaaS, HIVE
Certifications: PNPT, SANS GPCS, CompTIA CySA+, AWS Certified Cloud Practitioner
Security: Red Team, Internal/External Network, Web Application, Physical, & Social Engineering Penetration Testing
Miscellaneous: AWS, Docker, Containerization, Linux, Tenable Nessus, Forklift-certified, Cobalt Strike

PROJECTS

Scylla	2023 – Present
<ul style="list-style-type: none">• Orchestration and automation tool developed using Bash and Python to support efficient and consistent internal network penetration testing.	
NixOS Hardened Router	2025
<ul style="list-style-type: none">• Infrastructure-as-code router implementation fethiwaturing default-deny nftables rulesets, stateful packet inspection, IPv6 blocking, & network isolation to support safe adversary simulation and exploit development environments.	
PassMasker	2024
<ul style="list-style-type: none">• Analyze a list of passwords using novel bucket-sort implementation to improve computation by 40% and provide an analysis of the the passwords into a mask ingestible to hashcat.	
Tor Browser Fingerprinting Research	2019
<ul style="list-style-type: none">• Measured comparative data sets to determine Tor browser's anti-fingerprinting capabilities and develop an algorithm to bypass controls.	

VOLUNTEERING

#HashtagLunchbag Volunteer

2022 - 2024

- Packed lunches to help prepare meals for Pacific Garden Mission homeless shelter.