

Eric Kmetz

Security Engineer

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Seasoned, dynamic, highly technical, hands-on asset, with a wealth of knowledge and experience in many domains of cybersecurity. Successfully having pivoted into the security space, I am also an experienced software professional. I combine these disciplines to shift left, automate, research, develop, guide, advise, and perform assurance in this field.

Technical Proficiencies

OS & Platform:	Linux, macOS, Windows, GCP, Azure, AWS, Digital Ocean, Cloudflare, Akamai
Languages:	Golang, Python, Ruby, C/C++, PHP, SQL, Bash, JavaScript, React
Technologies:	MongoDB, FusionAuth, MySQL, Terraform, HashiCorp Vault, K8s, Istio, Deployinator, Docker, Rails, Flask, Cassandra, Elasticsearch, Kibana, Grafana, Memcached, Redis
SDLC:	GitLab, Bitbucket, Jira, Visual Studio, SCA, SAST, DAST, CI/CD, DevSecOps
Security Tools:	Open Policy Agent, SPIFFE, Nmap, Wireshark, Metasploit, Burp Suite, OWASP ZAP, OpenVAS, Nessus, Splunk, LogScale, Orca, JFrog, DefectDojo, CyberArk, Safetica, Keeper, Ivanti, Qualys

Career Experience

Frontdoor, Inc – Remote

2022 – Present

Platform Security Engineer

Member of the Platform Security team, focused on cloud native security, tooling development, automation, identity and access management, secrets management, security reviews, supporting external teams with secure solutions.

- Automated security approval for Policy-as-Code changes, creating a custom SAST scanner for a domain specific language that leverages GitLab's report ingestion and finding correlation features.
- Drove data security initiatives, coordinating across departments, creating libraries for detecting and intercepting sensitive data from logs to support software team compliance with policies.
- Worked with software teams to launch a product database security solution with Client-Side Field-Level Encryption, creating a microservice to automate the associated key rotation on required intervals.

Shift4 Payments – Remote

2021 – 2022

Sr. Security Analyst

Member of Enterprise Security, working in Security Engineering, CSOC/IR, Application Security. Primary functions included creating custom tools, vetting third-party software and vendors, reviewing firewall requests, design reviews, change control meetings, and release approvals.

- Reduced exposure to insider threats and compromised endpoints by vetting and integrating both Endpoint Privilege Management (EPM) and Data-Loss Prevention (DLP) solutions.
- Modernized SDLC security by assisting with DevSecOps initiative to integrate security scanning into CI/CD pipelines.
- Secured sensitive payment card data during bulk transfer operations by coordinating and executing cryptographic and transfer logistics.

Sprux LLC – Carson City, Nevada

2019 – 2020

Network Security Engineer - Contractor

Spearheaded the management of office and datacenter network infrastructure with enhanced security controls. Executed daily and semi-frequent tasks that included threat modeling, vulnerability scanning, remediation.,

- Established, implemented, and frequently updated baseline security policies, procedures, and best practices for the datacenter. Improved the efficiency of datacenter security across the board.

- Provisioned and frequently updated customer network configurations based on changing goals, objectives, and operating environments.

Self-Employed – Reno, Nevada

2015 – 2019

Consultant

Served as a strategic business partner and technical advisor to a wide variety of clients. Focused on the areas of software engineering, web development, security, startup, and business development advisory topics.

- Developed and implemented minimum viable products (MVPs) for clients.
- Instituted network and host IDS solutions that consolidated reporting to ELK SIEM.
- Analyzed and corrected poorly performing websites and databases.

Proofpoint – Sunnyvale, California

2014 – 2015

Principal Engineer

Worked to enhance the Social Patrol product's account detection, mitigation, and regulatory compliance enforcement functions. Evaluated, reacted to, and prevented threats across the entire technology landscape.

- Authored pattern matching expressions that executed periodic scans of monitored social account content.
- Lead integration of Social Account contents into Email Archiving and Discovery product lines.

Social Concepts – Redwood City, California

2007 – 2014

Director of Engineering

2012 – 2014

Senior Systems Architect

2007 – 2012

Recruited, onboarded, trained, and mentored local and remote engineering employees. Strengthened individual and team performance. Designed and implemented network threat intelligence and behavioral pattern recognition, automated responses that were based on perceived threat levels of incoming social network end-user activities.

- Deployed a new virtual currency system for social network end-users. Boosted revenue by 900%.
- Enhanced processes and procedures through better tracking, triage, and utilization of employee resources.
- Seamlessly integrated payments using merchant system APIs with PayPal.
- Championed administrative and technical aspects of fraud prevention.

Education

Bachelor of Science – Cybersecurity & Information Assurance

Western Governors University – Salt Lake City, Utah

Certifications

- (ISC)² – Certified Information Systems Security Professional (CISSP)
- PDSO – Certified Cloud Native Security Expert (CCNSE)
- PDSO – Certified API Security Professional (CASP)
- PDSO – Certified DevSecOps Professional (CDP)

Conference Presentations

Cats and Mice - Ever Evolving Attackers and Other Game Changers. Talk given at the Security BSides Las Vegas Conference, August 2015, Las Vegas, Nevada

Volunteerism

Conference Operations (aka "SOC Goon") – DEFCON, Las Vegas, Nevada