- Stefan Maerz -

Cybersecurity Architect and Engineer
Architecture | Engineering | Cybersecurity

Knoxville, TN 37934 • (573) 612-1078 • stefanmaerz@gmail.com • linkedin.com/in/stefanmaerz

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I am a passionate and hardworking cybersecurity professional with over 8 years of progressive experience as a systems/network administrator, cybersecurity engineer, and cybersecurity architect. Sharply analytical and eager to learn. Recognized as a top performer, I have won awards for leading incident response efforts against a sophisticated and motivated threat actor and for delivering high stakes project milestones. I've dedicated my career to securing the world's fastest bleeding edge supercomputers and securing the United State's nuclear weapons stockpile. Broad skill set with deep experience in most cybersecurity domains.

I lead with influence, clear communication, and am able to translate complexity into digestible results.

PROFESSIONAL EXPERIENCE

Sr. Cybersecurity Architect • Consolidated Nuclear Security, Oak Ridge TN   11/2020 - Present

I currently work for Consolidated Nuclear Security (CNS), a contractor to the Department of Energy's National Nuclear Security Administration (NNSA). CNS manages The Y12 National Security Complex and Pantex Plant which manufacture nuclear weapon components.
- ► Architecture Review Board member: analyze proposed system architecture
- ► Consult with stakeholders to ensure security is built into each phase of the SDLC
- ► Develop strategic enterprise gap analysis of existing security capabilities
- ► Redesigning enterprise IAM/PAM/SSO strategy
- ► Develop architecture for cloud services

HPC Cybersecurity Engineer • Oak Ridge National Lab, Oak Ridge TN   3/2017 - 11/2020

I worked at Oak Ridge National Laboratory's National Center for Computational Sciences (NCCS)/Oak Ridge Leadership Computing Facility (OLCF). I was a cyber security engineer supporting Summit, Frontier, and Titan, three of the world's fastest supercomputers.
- ► Led incident response efforts for an APT sponsored campaigns and a BEC incident
- ► Led federated identity management initiatives
- ► Design and deploy 100 Gbps Bro/Zeek network monitoring cluster
- ► Deployed endpoint detection and response tool osquery
- ► Development of security policy and architecture/design throughout the entire systems development life cycle (SDLC) of supercomputers
- ► Software development of a secure password vault based on smart card public key cryptography
- ► Designed, implemented, and maintained security services via Puppet and Kubernetes

Information Security Specialist • Los Alamos National Laboratory, Los Alamos NM   6/2015 - 3/2017

I worked at Los Alamos National Laboratory (LANL), a contractor to the Department of Energy's National Nuclear Security Administration (NNSA). In that role, worked in LANL's Office of the CIO and provided support to LANL's cyber security program in support of NNSA's mission of ensuring the safety, security, and effectiveness of the United States' enduring nuclear weapons stockpile.

► Manage System Change Process: analyze proposed changes, evaluate system risk posture, assess risk/vulnerabilities, and develop/recommend alternative architectures
► Write and update Security Plans
► Security control validation: Security Testing and Evaluation (ST&E)
► Collaborated across the Department of Energy's (DoE) National Laboratory system to consolidate GRC tooling across DoE

Systems Administrator • The Community Partnership, Rolla MO   5/2013 - 6/2015

I was a Systems Administrator at The Community Partnership (TCP). During that time I was fully responsible for all IT Operations. I deployed a variety of enterprise technologies: including an Active Directory domain, email services, website development, file servers, and backup services), and implemented an information security program.

► Responsible for full system lifecycle of server, desktop, and network infrastructure
► Cut information technology expenses by approximately $10,000 per year by reinventing TCP's technology support model
► Supported the emerging needs of as TCP spun off a healthcare clinic for underserved members of the community

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EDUCATION

M.S. Cybersecurity • Georgia Institute of Technology, Atlanta GA
2023 - (Anticipated)

B.S. Information Science and Technology • Missouri University of Science and Technology, Rolla MO
2010 - 2015

SKILLS

Linux	Windows	AD Security	IAM
Python	BASH	SQL	Networking
Infrastructure as Code	Kubernetes	Puppet	Site Reliability Engineering
Automation	CI/CD	DevOps	Jenkins
Threat Modeling	Mitre ATT&CK	Threat Intelligence	Project Management
NIST 800-53	NIST 800-37	Applied Cryptography	
Risk Analysis	Risk Management	Incident Response	Network Forensics
Cloud Security	Cloud Engineering	AWS	