Xiao He

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Cloud Security Manager and Security Engineer with strong communication and project management competency. Experience with building scalable and secure cloud infrastructure. Self-starter and avid tech explorer with experience in growing startups.

Skills

\triangleright	Cloud Architecture Review	\triangleright	Identity and Access	\triangleright	M&A Due Diligence
\triangleright	Security Automation		Management	>	M&A integration
\triangleright	Security Engineering	\triangleright	Engineering Management	\triangleright	Contract Terms Negotiation
\triangleright	Threat Modeling	\triangleright	Risk Management	\triangleright	Vendor Relationship
>	DevSecOps	>	Vulnerability Management		Management

Experience

Twilio Inc.

Manager, Cloud Security February 2022 to Present

- > Manage Cloudsec maturity roadmap and build foundational capabilities around assessed maturity level.
- > Cultivate cross-functional relationships with peer security teams, core infrastructure teams, and product teams to unblock ongoing efforts and coordinate new initiatives.
- > Develop architectural patterns around Cloud Org Structure, IAM, Service Mesh, K8s, and audit logging.
- > Organize and facilitate 4-5 project deliveries per quarter through rigorous planning, easy-to-follow checklists, and regular retrospectives.
- > Manage a team of 9 with junior to staff senior ICs with regular career conversations, and lead hiring efforts.

Tech Lead / Staff Cloud Security Engineer September 2021 to February 2022

- > Authored the revamped Twilio Cloud Security Policy to incorporate Multi-Account strategy, Kubernetes, Infrastructure as Code(IaC), and compliance-driven requirements(HITRUST, PCI, HIPPA).
- > Drove the SPIFFE/SPIRE initiative & Open Policy Agent(OPA) adoption as Cloudsec anchor, conducting architectural reviews and threat models for Service Discovery and Communication.
- > Performed security architecture reviews and threat models for IAM, Networking, Storage, and Encryption.
- > Conduct risk assessments, evidence gathering, and facilitate remediations for SOC 2 and PCI DSS.

Senior Cloud Security Engineer April 2020 to September 2021

- > Developed AWS Organization OU management and SCP deployment via Terraform.
- > Migrated all production bastion SSH access from X.509 certificate to Yubikey One-Time-Password(OTP).
- > Deployed the automation framework for the Cloud Vulnerability Management initiative.
- > Built out AWS new account security onboarding automation via AWS Cloudformation StackSets.

Cloud Security Engineer August 2018 to April 2020

- > Automated detection and remediation with Step functions, AWS Lambda, and DynamoDB.
- > Performed threat modeling, incident response, and IAM least-privileged analysis.
- > Managed bastion network and Twilio's public key infrastructure(PKI) for production access.

Kilter, Inc (acquired by Blackbaud)

Co-founder & CTO June 2016 to January 2019

- > Directed technology decisions and oversaw the development of React Native mobile and web apps.
- > Designed and developed native AWS cloud infrastructure with services running Golang APIs, PHP, Python, Angular5 website, and CI/CD pipeline.
- > Interfaced with partners and large clients and facilitated customers' adoptions.
- > Managed a full-stack engineering team of 5 and prioritized feature requests and workstreams.

Industrial Refrigeration Consortium

Lead Software Engineer April 2016 to February 2017

- > Refactored legacy PHP codebase and managed MySQL database and the web server.
- > Redesigned internal management system with Bootstrap and jQuery.
- > Developed and maintained all IRC and HVAC&R Center websites and databases.

UW-Madison IoT Systems Research Center

Researcher September 2015 to September 2016

Terraform Monitoring to Your AWS Organization SCP

https://xiaoh.net/thoughts/aws/2021/05/20/Monitor-AWS-SCP.html

Certifications

- > Designed hardware interfaces with Arduino YUN to provide activity analytics for gyms.
- > Implemented integration of Amazon Echo and Slack with AWS Lambda and webhooks.

CCI	tilications	reciliologies
>	Certified Information Systems Security Professional(CISSP)	AWS
\triangleright	AWS Certified Security - Specialty	CloudFormation
\triangleright	AWS Solutions Architect - Associate	Kubernetes
\triangleright	AWS Certified Developer - Associate	Metasploit
\triangleright	GIAC Security Essentials Certification(GSEC)	Nmap
\triangleright	AWS Cloud Practitioner	Nginx
		React Native
Blo	gs	Terraform
Aler	t & Remediate AWS Cloud Misconfigurations with Step Functions	
>	https://xiaoh.net/thoughts/aws/2020/11/03/Vuln-Life-Cycle.html	Languages
Tim	e-based Control for IAM	Python (Proficient)
>	https://xiaoh.net/thoughts/aws/2021/04/19/Time-based-IAM.html	Golang (Proficient)

Technologies

PHP

MySQL

JavaScript

(Proficient)

(Familiar)

(Familiar)