Xiao He

San Francisco, CA, U.S.A

xiaoh.net

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Cyber security engineer with strong communication and project management skills. Experience with building scalable and secure cloud infrastructure. Self-starter and avid tech explorer with experience in growing startups.

Experience

Twilio Inc. – San Francisco, CA

Tech Lead / Staff Cloud Security Engineer September 2021 to Present
- Developed AWS Organization OU management and SCP deployment via Terraform.
- Drove the SPIFFE/SPIRE initiative & Open Policy Agent adoption as Cloudsec anchor.

Senior Cloud Security Engineer April 2020 to September 2021
- Migrated all production bastion SSH access from X.509 certificate to Yubikey One-Time-Password(OTP).
- Deployed the automation framework for cloud vulnerability management initiative
- Built out AWS new account security onboarding automation via AWS StackSets

Cloud Security Engineer August 2018 to April 2020
- Automated detection and remediation with Step functions, Lambdas, and DynamoDB.
- Performed threat modeling, incident response, and least-privileged analysis.
- Managed bastion network and Twilio's public key infrastructure for production access.

Kilter, Inc – Madison, WI

Co-founder & CTO June 2016 to January 2019
- Directed technology decisions and oversaw development of mobile and web apps.
- Designed and developed AWS cloud infrastructure with services running Golang APIs, PHP, Python, Angular5 website, and CI/CD pipeline.

Industrial Refrigeration Consortium – Madison, WI

Lead Software Engineer April 2016 to February 2017
- Refactored legacy PHP codebase and managed MySQL database and the webserver.
- 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 – Madison, WI

Researcher September 2015 to September 2016
- Designed hardware interfaces with Arduino YUN to provide activity analytics for gyms.
- Implemented integration of Amazon Echo and Slack with AWS Lambda and webhooks.

Education

University of Wisconsin, Madison

- Bachelor's Degree (Honor), Computer Engineering
- Bachelor's Degree, Computer Sciences

Certifications

AWS Certified Security – Specialty

AWS Solutions Architect – Associate

AWS Certified Developer – Associate

GIAC – GSEC

AWS Cloud Practitioner

Technologies

AWS
Apache
AngularJS
Burp Suite
Docker
Metasploit
Nmap
Nginx
Node.js
React
React Native
Terraform
D3.js

Languages

Python   (Proficient)
Golang   (Proficient)
PHP   (Proficient)
MySQL   (Familiar)
JavaScript (Familiar)