XIAO HE

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Summary

Aspiring software developer with proven skills in team communication and project management. Self-starter and avid tech explorer with experience in growing startups.

Employment

Twilio

Senior Cloud Security Engineer · April 2020 to Present

- Perform threat modeling, incident response and least-privilege analysis on security roles.
- Create security guardrail baseline in SCP and automation for multi-account effort.

Security Engineer II · April 2019 to April 2020

- Migrated all production bastion SSH access from X509 certificate to Yubikey One-Time-Password(OTP).
- Initiated cloud resources ownership tagging effort for over 500 high risks external facing resources.

Software Engineer · August 2018 to April 2019

- Developed tooling with AWS Step functions, Lambdas and DynamoDB to detect and remediate security deviations for AWS cloud infrastructure.
- Reduced wildcard certificates' blast radius on over 200 roles and 800+ hosts.

Kilter, Inc

Co-founder & CTO · June 2016 to January 2019

At Kilter, we're on a mission to transform the employee wellness space by enabling employers to donate to employee causes when they complete daily health goals.

- Directed technology decisions and oversaw development of mobile and web applications.
- Designed and developed AWS cloud infrastructure with services running Golang APIs, PHP, Python, Angular5 website and CI/CD pipeline.

Industrial Refrigeration Consortium

Lead Software Engineer · April 2016 to February 2017

- Refactored legacy PHP code base and managed MySQL database and 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

- Designed hardware interface to track activity and provide data analytic for gyms and users. Completed first module with Arduino YUN, accelerometer, and pressure sensor.
- Researched in practical use of AWS system within IoT lab environment and implemented integration of Amazon Echo and Slack with AWS Lambda and webhooks.

Education

University of Wisconsin - Madison
B.S. Computer Engineering
B.S. Computer Sciences

Certification

GIAC - GSEC

AWS Cloud Practitioner

AWS Solutions Architect Associate

Coursework

Algorithm
Artificial Intelligence
Cryptography
Computer Architecture
Data Structure
Digital System Design and Synthesis
Machine Organization
Microprocessor

Languages

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

Technologies

AWS (DevSecOps, IAM, VPC)
Docker
Nginx
Apache
AngularJS
Node.js
React
React Native
D3.js
Git