



KYLE FELTER

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Employment History

07/2017 - 11/2018

Associate Technical Consultant

**Blackstone Technology
Group**

[Product Development]

REST API development in Golang

UI Design in Angular typescript

AWS service integration: s3, lambda, ec2, iam

Secure access management using jwt and Keycloak

[DevOps]

Infrastructure as code: Terraform, Ansible

Highly available / Clustered services: Hashicorp consul, DNS

Automating Auditing and Security scanning: Graylog, Nessus

Linux os hardening: CENTOS, SELinux

11/2018 - 09/2019

Full Stack Developer, Product

**Decipher Technology
Studios**

[Product Development]

AI machine learning using neural nets to analyze time series data: pytorch

Api integration: REST, go packages, react components

Web service development: react, go

Golang development: encryption, jwt web tokens

[DevOps]

Devops CI/CD: openshift, Jenkins, circleci

Micro service architecture and containers: docker

09/2019 - 01/2021

Software Engineer

Megaphone

Megaphone is a leader in technology supporting podcasts. I am the lead developer on the backend services that support audio streaming and dynamic advertisement insertion.

Main efforts:

- Migrate audio data services from heroku with a managed cdn to kubernetes on bare metal
- Improve audio delivery architecture using golang/nginx/docker/kubernetes
- Adding features to the advertisement delivery service written in golang

- Setup CI/CD pipelines to automate testing and deployment of code updates
- General software engineering and debugging on a platform with many interacting technologies, including digging into bugs and filtering large data sets to illuminate root causes of a bug effecting multiple parts of a larger system
- Main languages used: golang, python, bash
- Support and mentor junior golang developers through PRs and 1 on 1 meetings

01/2021 - Present

Engineer II

Spotify

Megaphone was purchased by Spotify, my contributions to the adserver and content delivery code around Streaming Ad Insertion was a large contributor to the deal. I still lead the backend development team that focuses on scaling up to 1 billion podcast downloads a month and beyond

Education History

05/2017

Virginia Polytechnic Institute and State University

Computer Engineering, Bachelor's Degree

I started out as an Electrical engineer but found myself writing code to solve most of my homework and exams. This lead me to change majors into computer engineering, which focuses on creating practical solutions with software to solve real world problems.

Projects

01/2019 - 02/2019

HuePut

Exclusive Contributor

<https://s3.amazonaws.com/core-color/index.html>

- Add new colors to a community board
- Vote on colors by liking them
- Frontend is written in react hosted as static content in AWS s3
- Backend is an AWS lambda function + s3 as a DB

I really enjoyed making this project, I created it in such a way that the server that hosts the content does not exist until a user interacts with it. As soon as a user visits the site, a server is created, content is served, then the server is deleted. Every time an action is performed on the site it goes through this process, saving costs on AWS resources and allowing it to be infinitely scalable.

05/2018 - 06/2018

Encryption Algorithm AWS Lambda

Exclusive Contributor

This is an interview question that I created and made a solution to. Then in an effort to learn the Lambda and serverless technology, I deployed my solution as an aws Lambda with an api gate trigger.

GitHub: <https://github.com/felts94/Golang-Encryption-AWSLambda>

07/2020 - 08/2020

GoTolerance

Solo

This is a golang package that runs math operations in multiple go routines, using parallel processes to run the same math operation multiple times. Then it compares all the parallel operations and tries to get a majority vote on the correct answer. This allows us to continue math operations even if one of our processes were corrupted by the physical environment.

Certifications & Honors

12/2018

Best Hackathon Project 2018

**Decipher Technology
Studios**

service that created a graph representing microservice dependencies using http request tracing

Skills and Abilities

Go	Expert
CI/CD	Expert
Docker And Micro Service Architecture	Expert
Kubernetes	Expert
Python	Expert
Redis	Expert
SQL	Advanced
Google Cloud Platform	Advanced
AWS	Expert
Linux	Advanced

Additional Info

GitHub: [kfelter](#)

Projects page: [kfelter.github.io](#)