Tyler **Stapler**

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Skills & Interests

Python	Java/Kotlin
Go	Kubernetes (K8s)
Distributed Systems	Cyber Security
Typescript/Javascript (React/Angular2+)	SRE

Work Experience

Google

November 2021 – Present

Drove GKE (Google Kubernetes Engine) wide support for t2a (ARM) VM shapes ensuring every component was identified, compiled for ARM, and tested before public launch. (CI/CD/Debugging/Cross Org Collaboration)

Researched best practices for multi-architecture (multi-arch) containers and created best practices creating and testing multi-arch containers. (Developer Experience/Linux Containers)

Identified a gap in Google's Multi Arch container support and fixed it for all of Google Cloud (CI/CD/Linux Containers)

Tracked down bugs in Open Source multi-arch support and fixed them upstream. *(CI/CD Linux Containers)*

Workiva

May 2016 – November 2021

Tech Lead for team building workflow system for business processes (Leadership/Road map Planning)

Identified an unpaged API query in another team's front-end and worked across team boundaries to fix it resulting in a 30,000 a month in server cost savings. (Performance Tuning/Debugging)

Designed and implemented a sharded caching layer in workflow system to drop median request latency from 10s to 100ms (Java/Spring Boot/ Redis)

Lead company wide migration of 150 micro-services from home grown container management engine to Kubernetes. (Project Management/Cross Team Collaboration)

Created helm based app deployment framework to make using Kubernetes best practices easy for application. (Helm/CI/CD)

Designed and built ETL pipeline to analyze billions of messages per day(Kotlin/NATS/AWS Athena)

Developed an internal framework for load testing, across multiple languages, using Kubernetes and Locust to promote scalable micro-services across the engineering org. (Locust/Kubernetes/Go/Java/Python)

Created a port knocking proxy to let operations team to securely access production resources without maintaining a system of SSH jump boxes. (AWS Lambda, Python)

Tracked intermittent request failures to a bug in AWS ALB by using packet captures. (Python/Wireshark)

Built browser testing app to assist support engineers. (AWS/Dart/Python)

Emerson Process Management

Jan 2015 – Aug 2015

Co-Inventor of Patent US9972321B2 – System for configuring Flow computers via RFID tags.

Sole maintainer of firmware for flow computer with 20,000+ Units deployed.

Debugged systems consisting of 100k+ of lines of code spread over multiple products. (Embedded C/C++)

Designed and implemented automated test suite for temperature chamber flow computers which tripled testing throughput and identified bug which occurred at low temperatures. (Python/Bench Testing)

Education

Iowa State University

B.S. in Computer Engineering Dec 2017

Classes: Algorithms, Operating Systems, Microelectronic Circuits, Linux Essentials, Embedded Systems, User Interfaces, Computer Networks, Computer Architecture and Assembly Programming, Digital Forensics and Stenography, Network Security