Matthew Clegg - AWS Cloud Developer

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Over **17 years** of industry experience, developing with client, server and infrastructure technologies. Skilled in automation cloud orchestration tools (Kubernetes, Terraform, Helm, Ansible etc), server-side technologies (GoLang, Python, PHP) & client front-end languages (HTML, CSS and JavaScript). I have experience creating and hosting websites using complex math & basic logic for most common content management systems. My previous work experience includes projects with numerous digital agencies, startups and corporations.

VP Site Reliability Engineer
Wood Lane, London 2020 - 2022

Responsible for automating everything from A to Z using Terraform, AWS, Azure, etc. Ensuring 'the lights stay on', to deliver the best possible experience to customers. Migrated web services into Docker/Kubernetes from ElasticBeanstalk & migrated from BitBucket to GitLab. Proactively monitored the health of the platform, to detect and resolve threats, defects and outages before they had any meaningful impact on users. Enhanced teams in regards to communication, collaboration and integration between software developers and infrastructure stakeholders in the software delivery lifecycle. Worked closely with product stakeholders, such as designers and product managers to gather requirements and refine problems into focused deliverables. Advised with a pragmatic approach to operation/product teams on topics such as automation, deployments and architecture. Provided training sessions for keen developers to attend regarding Docker & Kubernetes. Responsible for supporting a team of SREs in monitoring the platform using logs, metrics, tracing, amongst other observability. I aimed to improve their existing platform concerning scalability, deployments and reliability so they require less maintenance in the future. I used my start-up mentality to be responsible, energetic, ambitious, adaptable and willing to jump in wherever might be needed.

azure devsecops docker go-lang k8s people-are-important php python shell terraform web

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SRE / DevOps Engineer
Pullach, Bavaria 2019 – 2020

Initially configured EKS Clusters via TerraForm to be provisioned from GitlabCI pipeline. I created a Jenkins pipeline framework using Groovy scripts for dockerizing Spring Boot application microservices. I created a framework for deploying a Kafka proxy/zookeeper for creating ephemeral microservice preview environments. I configured API Gateway with TerraForm to run a lambda for deploying generated microservice Kubernetes manifests. I implemented a Prometheus based monitoring solution and synced observability requirements of the Orange Platform.

docker k8s

Site Reliability Engineer
Munich, Germany 2018 – 2020

Responsible for building and maintaining cloud based infrastructure for SAAS platform used by SME customers. Responsible for automating everything from A to Z using Terraform, Ansible, AWS lambda functions, etc. I was responsible for supporting a team of SREs in monitoring the platform using logs, metrics, tracing, amongst other observability stacks such as ELK and NewRelic. I advised product teams on topics such as automation and architecture. I aimed to enhance teams in regards to communication, collaboration and integration between software developers and infrastructure stakeholders in the software delivery lifecycle. While at Personio I migrated their web services into Kubernetes in AWS using GitLab. I created and managed a GitLab service in an automated fashion. I used a GitLab instance to provision Kubernetes environments in AWS. I migrated all microservices to Kubernetes services in AWS environment using direct connect. I aimed to improve their existing platform concerning scalability, deployments and reliability so they require less maintenance in the future. I supported the internal team on operations topics regarding deployment & automation. I provided training sessions for keen developers to attend regarding Docker & Kubernetes.

cicd devsecops docker k8s php python shell terraform web

Senior Technical Operations
Munich, Germany 2016 – 2018

During my time at Freeletics I was responsible for running their heavily used platform to sustain the api/web services 24x7x365. I completed this by monitoring the platform to know of issues before users and proactively responding to maintain the system. While at Freeletics, I introduced KOPS (Kubernetes Operations) to manage Kubernetes. Previously, the cluster had been created 'by hand' to use a combination of flannel/AWS route tables to manage internal networking. I improved the cluster design by; enabling load distribution across multiple availability zones in AWS, replacing a hardcoded ingress service with a dynamic ingress controller, fixing several security issues, reducing operating costs and, most importantly, provided the ability to autoscale the number of servers required by the cluster based on the current demand. The launch script for the cluster was also documented as a repeatable script (that ran inside docker) that could create a new Kubernetes cluster by; calculating available subnet CIDRs in a VPC, generating required keys/certificates, updating DNS records, defining all required resources in terraform, setup networking using Weave and initializing a helm tiller to await for future deployments. I created a helm chart that described all micro-services to be done as a single deployment . This improved the workflow by ensuring that the same versions and configuration settings (routing, Memory/CPU, etc) would be deployed on all production/staging/QA environments. It also enabled the teams to use HTTPS & subsequently HTTP2 for all environments.

devsecops docker k8s people-are-important python shell web

DevOps Engineer
Kensington, London 2015 – 2016

Automation migration for several large sites from VPS cloud hosting environments, for both Linux & Windows stacks, to AWS in Europe & China regions. Cloud orchestration completed using cloud formation. General shell scripting for running deployment processes, SQL backups, maintenance, and performance tuning completed using Puppet.

python shell

Senior Web Developer
Lund, Sweden 2014

I completed from scope to deployment for both Front-end / Back-end PHP Web development work of Unlockbootloader service to be managed as a plugin with the existing CMS. Various bug-fixing of existing Sony website themes and customisations to WordPress CMS requested by editors. I used Prometheus to generate reports and assisted with Fika requirements.

I migrated the Unlockbootloader website from a 3rd party hosting provider to AWS. We set up Jenkins to manage automated deployments to provision quicker releases. I configured metrics to be collected in Prometheus to monitor the application. I also created a service for developers of the LifeLog API to generate and manage their keys by using the API from APIGee.

I created an Unlockbootloader service plugin and assisted in automating security PEN test audits. The audit reports helped to detect security flaws as soon as possible. I configured metrics to be collected in Prometheus to monitor the application on dashboards everybody could see which provided a strong feedback loop and allowed to Benchmark & review performance.

Hobbies & interests
My favourite hobbies include long distance cycling, short distance running and hiking.
I am also interested in cooking and photography.