

# Matthew Clegg - Python Developer

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Over **15** 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 (Python, PHP, Ruby) & 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.

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## Site Reliability Engineer

*Munich, Germany*

**2018 - 2020**

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 the 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.

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## 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.

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**DevOps Engineer****Kensington, London****2015 - 2016**

Automation of cloud hosting environments in AWS (Python) for both Linux & Windows stacks. Configuration management with Puppet (Ruby), involving updating existing modules and creating new modules. General shell scripting for running deployment processes, SQL backups, maintenance, performance tuning etc. Development, maintenance and migration of several large sites from VPS to cloud hosting in AWS. Supporting websites using Drupal, Laravel, and Moodle including XHTML markup, advanced CSS, object orientated JavaScript, X-browser testing, responsive layouts etc. I migrated a Chinese version of their website from SDL Tridion to a cheaper hosting alternative that provided a quicker load time for users in mainland China. I created a script to scrape the content that was publicly available and imported it into a standard Wordpress site. I created a bootstrap theme in a similar design to the previous website. The bootstrap theme made the website responsive for smaller screen devices and provided a pattern library of other components that could be used within the theme, without requiring work of a dedicated designer. I provided training to the marketing content editors for them to review all content that had been imported. There were delays in acquiring an account for AWS China and an alternative solution needed to be provided. I set up identical versions of the site in different regions surrounding China, and a small website that would track how long it takes to load the website from each region for the current user. This website was shared with the offices in Beijing & Shanghai to record which region would provide the fastest hosting to users inside mainland China, without being hosted in China. This was the also first project by the I.T. department to be completed on time and budget.

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**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.

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**Senior Web Developer****Lund, Sweden****2014**

Involved from scope to deployment for both Front-end / Back-end PHP Web development work of Unlockbootloader service as a WordPress plugin. Various bug-fixing of existing Sony website themes and customisations to WordPress CMS requested by editors. Using metric APIs to generate reports and assisting with fika requirements.

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**Hobbies & interests**

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