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## Personal Profile

I am a highly ambitious individual with a genuine interest in software development and infrastructure operations. I’m eager to learn and experiment with different languages and techniques in order to improve my ability to develop effective solutions. I have a strong team mentality, recognising that it takes many people to deliver a successful end product. I’m experienced with compiled languages such as Golang for data processing where performance is critical. I’m also experienced with infrastructure as Code such as Terraform for cloud configuration and Chef for server application configuration which makes tasks, such as deploying updates, easy.

Currently my daily aspects at work are targeted at maintaining, designing, and scaling server infrastructure using Google Cloud, as well as working on highly concurrent and scalable programs where speed is important, such as importing data into ElasticSearch. I also have a strong understanding of web servers such as NGINX, serving web applications and caching static content using Fastly (CDN) in order to reduce page load times from the edge. I maintain and deploy multiple Kubernetes clusters, while ensuring that each deployment/job/cronjob/daemon use the least-privilege principle whilst communicating with GC. I’m mindful of the importance of security, including server side security practices such as effective firewalling, utilising public key authentication and 2 factor authentication, etc. I understand the impact that errors can make to programs and acting on them as fast as possible - alerting team members via a service such as OpsGenie.

I fully automate the provisioning of a new Google Cloud instances using the “golden image” approach - I use Packer to start an instance, provision it with Chef then create new image from it for easy rollout. To ensure that all manifests for Kubernetes are managed, helm is used as well as tracking all manifests in git so that no data loss is occurred in a worst case scenario. I also work on multiple micro-services that communicate via GRPC using protocol buffers, whilst making hundreds of requests to different external services, parsing the responses into the protocol buffer and returning all of the results to the user.

## Key Skills

* **Clear communicator** – I am able to easily engage with people - I listen and encourage others to put their point across and generally find it easy to work in teams.
* **Quick learner** – I find it easy to quickly pick up new skills, a helpful skill
* **Desire to learn** – Very eager to learn new things and build up my knowledge

## Technology Summary

* AWS, Google Cloud, Terraform, Packer, Chef, Docker, Kubernetes, ElasticSearch, Consul, Vault
* GoLang, Rust, Java, Python, Bash
* Vagrant & VirtualBox for local development - provisioned with Chef
* Relational databases (MySQL, Google Cloud Spanner)
* Linux (Ubuntu)
* NGINX servers - serving, caching & load balancing
* CDN (Fastly)
* Git for version control – gitflow
* CI/CD - gitlab, Jenkins, bitbucket - Rollbacks, Canary deployment, Blue/Green deployments etc

## Employment History

### **DevOps Engineer/Backend Developer, RedBrain LTD, Greater Charles St, Birmingham**

(January 2018 - current)

**Achievements and responsibilities**

* Designing new projects and architecture
* Creating highly concurrent GoLang Projects
* Being a project owner and knowing how to delegate tasks to project members
* Having Agile boards such as Kanban and Scrum
* Working to deadlines with time for thorough testing
* Using project environments Dev, Staging, Production
* Creating programs for tooling - such as a program that is used to create certificates via LetsEncrypt and uploading to Fastly
* Using GC, Terraform, Packer, and Chef to create, provision and deploy cloud platform services.
* Extensive use of Kubernetes and Docker.

### **DevOps Engineer/Web Developer, Codemakers, Ford St, Derby**

(May 2016 - December 2017)

**Achievements and responsibilities**

* Collaborating with the team to ensure the project is successful
* Bringing new ideas to the team on how certain aspects of applications could be implemented
* Working closely with clients such as Wowcher on new additions to existing systems
* Ensuring to keep the clients updated with how progress is going
* Having daily stand-ups so there is clarity between the whole team
* Using AWS, Terraform, Packer, and Chef to set up and manage server instances across multiple clients and internal AWS accounts
* Creating a custom Continuous Deployment process using AWS SSM and S3
* Working on highly maintainable and scalable GoLang projects

### **HGV Mechanic, Nick Copes Ltd, Borrowash, Derbyshire**

(February 2014 - July 2015)

**Achievements and responsibilities**

* Ensuring safety in the workplace
* Making sure to be a good listener
* Reporting anything that didn’t seem as it should be
* When fixing an object ensuring a solid understanding before
* Using heavy equipment and knowing how to use it safely

Further employment history is available upon request

## Education

### **3aaa Academy (Derby)**

**Advanced Level Apprenticeship in IT,**

**Software, Web & Telecoms Professionals May 2016 - May 2017**

BTEC Level 3 Diploma in Professional

Competence for IT and Telecoms Professionals Pass

BTEC Level 3 Extended Diploma in ICT Systems and Principles Pass

### **Derby College**

**Level 3 BTEC Software Development Year 1 Sept 2014 - June 2016**

BTEC Level 3 90 Credit Diploma in Information Technology D\*D (A\*A)

**Level 2 BTEC Software Development Sept 2013 - June 2014**

BTEC Level 2 Diploma in IT D\* (A\*)

**Level 1 BTEC Software Development Sept 2012 - June 2013**

BTEC Level 1 Foundation Diploma for IT users Pass

NCFE Level 1 Award in Demonstrating Enterprise Skills Achieved

### **Kirk Hallam Community and Sports College**

**GCSE's Sept 2007 - June 2012**

Maths B

English C

Design and Technology C

Geography C

Physical Education C

OCR ICT Pass (C)

BTEC Science Pass (C)

## References

References are available upon request