**Graham Turner**

**AWS Certified DevOps Engineer and Python Institute Certified Python Developer**

An experienced ***Hands On*** Senior ***DevOps*** *Engineer* and ***Python*** *Developer* with **15 years+** experience, including Architecting and delivering ***AWS*** and ***GCP*** public cloud hosted *GitOps* solutions based around ***Linux***, ***Terraform***, ***Kubernetes****, Helm* and ***Docker,*** alongsidedeveloping ***Javascript***, ***React js***, ***Golang*** and ***ML*** applications

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UK Remote, Hybrid Cambridge London

Github.com/backenddeveloper/cv

**Public Cloud**

AWS, Well Architected, Control Tower, Security Hub, EC2, EKS, RDS, Glue, GCP, GKE

**Containerization**

Kubernetes, Docker, Nomad, Helm

**DevOps**

CI/CD, Monitoring, Infrastructure as Code, Configuration Management, Networks, Linux Security

**Security**

Pentesting, ISO27001, Auditing Best Practices, vulnerability management

**Python Development**

Python 3.12, FastAPI,OpenTelemetry, Poetry, Pytest, PyTorch, Scikit, TensorFlow, Keras, Pandas, Flask

**Full Stack Development**

Node, React.js, Next.js, Typescript, TDD, CSS, UI/UX

**Core Skills Profile**

**Work Experience**

**Senior AI implementation Engineer**

Motion Capture Systems 02/2024 – Current ~1 year

* Development, deployment, and tuning of AI image generation systems for Hollywood Film Production
* LLM product accelleration, OpenAI prompt engineering Langchain/Langsmith, HFT, RLHF, Drift analysis
* AWS systems engineering, Sagemaker MLOps, Lambda@Edge, Snowflake, Rekognition, Greengrass
* Designing CI/CD (Kubernetes, GitLab CI, ArgoCD);continuous tuning AutoML pipelines (Kubeflow, Airflow)
* Python development code review, API design, security analysis system/code architecture, test automation

**Lead DevOps Engineer**

Times Higher Education 01/2023 – 02/2024 ~1 year

* Development of applications in Python 3.12 with FastAPI, OpenTelemetry, TensorFlow, Behave, Pytest
* Developing FullStack Javascript, Node, React, Next.js, Typescript, Webassembly, API integration
* Managing, Provisioning, Migrating HA Cloud Infrustructure, IaC, AWS EC2, ECS, EKS, S3, R53 Terraform
* Architecting shift-left CI/CD pipelines for value delivery, branch builds, on-demand end-to-end testing envs
* Implementing DevOps processes and leading DevOps culture, driving MLOps for security and marketing
* Automating dev-experience using Kubernetes, Docker, K8s Helm, Github Actions and Artifact workflows
* Implementation of monitoring, alerting, self-healing and sys-visibility, Cloudwatch, NewRelic, Prometheus
* In this role **I reduced cloud spend by over 80%** for the company through cost optimisation
* **I implemented the first testable Disaster Recovery Strategy**, after successful incident management
* **I streamlined release management, reducing release time by 60% and release failures by 70%+**
* **I implemented Developer-Ops culture through training, documentation and agile practices**

**Technical Lead**

Click 04/2022 – 01/2023 ~2 years

* Development of applications in Python 3.10 with Flask, Uvicorn, OpenTelemetry, Airflow, Behave, Pytest
* Development of applications with FullStack Javascript, React, Vercel, WebAssembly (Golang), Typescript
* Implementing DevOps processes and leading DevOps culture, driving CI/CD value delivery, monitoring
* Delivering Highly Available Kubernetes environments based on AWS EKS and GCP GKE with Terraform.
* Automation of developer-experience using Docker, AWS, K8s Helm, Github Actions and Artifact workflows
* AWS cloud administration and governance for ISO27001. EC2, IAM, RDS, Lambda, ControlTower, R53

**Lead DevOps Engineer**

Optibrium BioPharma08/2019 – 04/2022 ~3 years

* Developing, implementing and architecting DevOps culture and CI/CD based around AWS automation.
* Operations around HA SRE workflows using Nomad, Kubernetes on AWS, GCP, HELM Docker, Terraform
* Developing and maintating DataScience/ A.I. applications using Python, Golang, Rust and web-assembly.
* Hosting of high volume events streaming workflows using Celery, Spark, Redis, and fullstack Javascript.
* Building of self-healing automated continuously deployed systems based around intelligent monitoring.
* Multi-cloud governance, security testing and auditing. SIEM and monitoring with prometheus and ELK
* WebApp development with Node, Javascript, TypeScript, React, Python Flask and WSGI

**Senior DevOps Engineer**

E-Skim Technologies 09/2018 – 08/2019 ~1 year

* DevOps and CI/CD administration based on AWS IAM, Route53, EC2, S3, RDS, CloudWatch, CloudFront
* Secure, HA Site Reliability Engineering with Kubernetes, Docker, Vagrant, Ansible, Terraform and Jenkins
* Application development in Java 9, JUnit5, Cucumber, Sonarqube, Apache Tomcat, Spring and Maven.
* Development in PHP 7, PHPUnit, Behat, Javascript, React, Symphony and Vue, Laravel, Lambda
* Development in Python2.7/3.6, unittest, behave/pep8/coverage, Django, Flask, Postgres, Redis, Celery

**Senior DevOps Engineer**

Capita (UoS) 07/2017 – 09/2018 contract

* Development of an extensive Cloud based (AWS, GPC) and self-managed in DC estate.
* CI/CD, Docker, Vagrant, Kubernetes, Helm, Git-Kube, Jenkins, Jira, Linux, full KVM / container platform
* AWS Automatiion, Terraform, Packer, Rancher, Cloud Formation, Lambda, API Gateway, Cloud Front

Linux hosting management, RHEL, Ubuntu, Kernel Mod-Dev, Chef, Puppet, Ruby, Python, Perl, Golang

* Application development in Java 9, JBehave, Mockito, Jetty, Spring Boot and Gradle
* Development in PHP 7, PHPUnit, Angular, Javascript, Jasmine, Symphony and Laravel
* Development in Python2.7/3.6, unittest, behave/pep8/coverage, Django, Flask, Cython, Redis Celery

**Senior Site Reliability Engineer** Piksel Television 09/2016 – 07/2017 contract

**Head of Technology** JSR Research 03/2016 – 12/2016 contract

**Technical Architect** Talk Straight Broadband (Talk Talk) 10/2015 – 03/2016 contract

**Head of Reverse Engineering** Games Warehouse International 03/2015 – 10/2015 contract

**Lead Developer** The JDR Group 12/2013 – 03/2015 ~ 2 years

**Lead Pentester** MatrixVision 06/2009 – 12/2013 ~ 4 years

**Pentester** RALink 04/2006 – 06/2009 ~ 3 years

**Education**

**The University of York**

PGC CyberSecurity, PGDip Computer Science with CyberSecurity, Other and longer qualifications.

**The University of Liverpool**

CertHE Japanese, Other and longer qualifications

Additional modules: Combinatorics, Mathematical logic and language (including Godel), Statistics for SPSS

**The University of Cambridge** (Department for continuing education)

CertHE Legal practice for Paralegals, Other and longer qualifications.

**The University of Oxford** (Department for continuing education)

Other and longer qualifications. Certificates/Short course awards in:

Study, language and work skills, Classical literature and the Bronte sisters, Philosophy of Mathematics

**The Open University** (19 years)

CertHE Contemporary Science, CertHE Computing and IT, DipHE Mathematics, Bsc Mathematics,

BSc Physical Science, BA Open. Additional CAT bearing modules:

Complex analysis, Mathematical Methods and Models, Fluid mechanics, Advanced calculus and its applications, Quantum Mechanics of Matter, Electromagnetism, advanced Java development.  
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**(ISC)2** Associate of (ISC)2, CISSP - **EC-Council –** CEH - **CISCO** (CCIE) - **JUNIPER** (JNCIE) - **The Chappel University**: WCNA - **OffensiveSecurity** (OSCP, AWAE) - **SANS Institute** (GPEN)

**Linux Professional Institute** – LPIC-3 (LPIC-2, LPIC-1) - **Zend** Certified PHP developer

**CompTIA -** A+ Network+ Server+ Security+ Linux+ CyberSecurityAnalyst+