

Graham Turner

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Please visit <https://github.com/backenddeveloper/cv> to download the latest version of this CV
Please avoid calling about relocation to London, Microsoft development or permanent Government positions.

PERSONAL PROFILE

An experienced Hands On development operations and software Engineer, IT Architect and Security professional who has excellent technical and mathematical skills, with more than ten years of background in supporting large businesses; I understand the requirements and how to perform in the role; my experience of working with other developers and engineers, handling stakeholder expectations, supporting and solving problems, developing services and handling technical incidents; all in a professional and objective manner, would make me a hard-working and effective addition to your company.

SKILLS PROFILE

- Problem solving, proactive teamwork and effective communication, demonstrated for over ten years; allow me to exceed expectations, achieve targets and deliver projects that provide business value.
- IT skills – Advanced knowledge of **GNU Linux**, Extensive **DevOps** and operations automation experience using **AWS, Kubernetes, Docker, Puppet, Chef, Ansible** and **Jenkins**. Advanced scripting with Ruby, Python, Perl, Bash. Extensive **Development** in **Java, Javascript, PHP, Golang and Python**. Extensive experience of setting up enterprise networking, server deployment, software architecture, embedded firmware design for custom micro controllers. Well versed in best programming practices and Clean Code.

WORK EXPERIENCE

E-Skim Technologies Dec 18 – Current **Senior DevOps Engineer / Lead Cloud Architect**

- Developing, implementing and architecting DevOps culture and CI/CD based around AWS automation.
- Daily operations around HA SRE workflows using Kubernetes on AWS, HELM Docker, ELK and Terraform
- Developing and maintaining DataScience/ A.I. applications using Python and Golang for web-assembly.
- Hosting of high volume events streaming workflows using Celery, Spark, Redis, and fullstack Javascript.
- BDD development of distributed security ledgers in fullstack Javascript, Java (Spring Boot) and PHP7.3
- Building of self-healing automated continuously deployed systems based around intelligent monitoring.

Emerald Publishing Aug 18 – Dec 18 **Contract Senior DevOps Engineer / Cloud Developer**

- 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

Capita (UoS) Jul 17 – Aug 18 **Contract Senior Development and Operations Engineer**

- 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 Automation, 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

Piksel Television Dec 16 – Jul 17 **Contract Site Reliability/Development & DevOps Engineer**

- Compliant BDD development in a wide ranging technical env with Java8, JUnit, Cucumber, PHP7, PHPUnit, Javascript, Jasmine, Python2.7/3.4, unittest, behave/pep8/coverage, Django, Flask, Jython
- Platform automation, Continuous Deployment, Docker/Rocker, Mesos-Marathon, Kubernetes
- Infrastructure as code, Puppet (Librarian), Ruby, Ansible, AWS and GPC automation tools
- Ultra-High-Availability design, Software defined networking, event driven monitoring and architecture

JSR Research Ltd

March 16 - Dec16

**Contract Software Engineer / Technical Architect
(Head of Technology)**

- Leading a development team, performing daily clean code review in an Agile (Scrum) environment.
- Full TDD Development in PHP 7 for LAMP, Java 8 for web (javax.servlet.http), Javascript, Jasmine.
- Database Administration and Maintenance: MySQL, PostgreSQL, Cassandra, Mongo, ElasticSearch
- Solely responsible for company internetworking, BGP, OSPF, MPLS, ACLs and firewalling.

Talk Straight Broadband (Talk Talk)

Oct 15 - Mar 16

**Contract Software Engineer / Technical Architect
(Head of Development)**

- Developing and building Carrier-Grade Big Data logging, filtering and reporting solutions.
- Developing high quality applications in PHP, PHPUnit, Java, Python, C++ and full stack Javascript.
- Leading a team of highly-skilled engineers. Designing Technical Architecture. Project management.
- Capacity planning, estimating and costing, high quality documentation and reporting.
- Managing Security and Network operations within the ISP.

Games Warehouse International

Mar 15 - Oct 15

**Contract Software Engineer
(Head of reverse Engineering)**

- Web game development, Javascript, XML, PHP, PHPUnit, NoSQL, MongoDB, AngularJS, Backbone
- Reverse engineering, IDA-Pro, decompilation, logic analysis, engine reconstruction.
- Embedded engineering, C, C++, Linux/Posix, Embedded Windows, NASM, Verilog, VHDL.
- Agile development; Scrum, Sprint, OOP, source control (GIT, SVN, P4), S/SDLC. Clean Code.

The JDR Group Dec 13 – April 15**Lead Developer and Security Engineer**

- Multi-platform application development and continuous integration for a large hosting company.
- Security testing and DevOps for auditing, compliance and assurance over multiple technologies. Cisco, Juniper, RHEL, Linux, Ubuntu, LAMP, AWS / EC2 / S3, Virtualization with KVM and VMware.

MatrixVision Jun 09 – Jan 14**Lead Pentester / Mathematical Lead**

- Development of server side applications using TDD; Java, C++, Node and Linux; focusing on algorithm design and heuristics, with a very strong emphasis on securely handling customer data.
- Security Engineering and Server set-up/maintenance. Application Pentesting and re-development.

EDUCATION**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 (12 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.

Zend – Zend Certified PHP Expert Engineer. (For more than five years.)**(ISC)2** Associate of (ISC)2, CISSP: Certified Information Systems Security Professional.**EC-Council** - Certified Ethical Hacker and other penetration testing secure programming qualifications.**OffensiveSecurity** (OSCP) - **SANS Institute** (GPEN) - Certified Penetration tester.**Linux Professional Institute** – LPIC-3 (LPIC-2, LPIC-1) Certified Data Centre Manager.**CompTIA** - A+ Network+ Server+ Security+ Linux+ CyberSecurityAnalyst+**CISCO** (CCIE) - **JUNIPER** (JNCIE) - Certified Networking, security and Infrastructure expert.**The Chappel University**: WCNA, Certified Network Analyst.