

# 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 Microsoft development, permanent relocation to London or 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 understanding 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, Puppet, Chef, Ansible, Docker** and **Jenkins**. Advanced scripting with Ruby, Python, Perl, Bash. Extensive Open Source **Development** in **Java, Node, 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.

## WORK EXPERIENCE

### **Emerald Publishing** Aug 18 - Current **Contract Senior DevOps Engineer / Cloud Developer**

- Developing, implementing and architecting DevOps culture and CI/CD based around AWS automation.
- 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.
- 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 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

### **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-Availablity design, Software defined networking, event driven monitoring and architecture

### **JSR Research Ltd** **Contract Software Engineer / Technical Architect** March 16 - Dec16 **(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

- 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.

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

Mar 15 - Oct 15

- 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.

**Contract Software Engineer  
(Head of reverse Engineering)****The JDR Group** Dec 13 – April 15

- 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.

**Lead Developer and Security Engineer****MatrixVision** Jun 09 – Jan 14

- 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.

**Lead Pentester / Mathematical Lead****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.**REFERENCES**

References are available upon request.