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Matt Long

A senior software engineer with 10 years of consultancy experience across various clients, specialising in platform engineering, quality assurance processes, infrastructure and cloud architecture.

- A specialisation in devops tools and practices, but with broad experience in both development and testing.
- Experience testing programmable infrastructure and serverless, API driven platforms.
- Conference speaker at QCon, Testbash, muCon, and Agile Cambridge, writes occasional testing blogs.
- AWS associate solutions architect certification.
- Frameworks built in a multitude of languages.
- Years advising clients on various cutting edge technologies and processes.

Languages
Java, Go, Javascript, Scala, Python, Ruby, Gherkin, VBScript

Methodologies
DevOps, TDD, Agile (Scrum & Kanban), BDD, Exploratory Testing, Session Based Testing, CI/CD

Tooling & Frameworks
Terraform, AWS, Kubernetes (EKS), GitHub Actions, ArgoCD, Jenkins, JMeter, Spring Boot, Cucumber, Selenium, Gatling, Packer, RSpec

Experience

Senior Consultant @ OpenCredo (2018 - current)

OpenCredo is a open source consultancy, specialising in devops, cloud native systems, data engineering and microservices.

As a devops consultant, I help to automate deployment pipelines, infrastructure provisioning and advise on how to make the most of a cloud native platform.

As a tester, I specialise in automated test frameworks, and advise clients on quality processes and development speed, as well as coaching and mentoring other OpenCredo consultants on good testing practices.

Major projects:

- **Major Payments Provider**
  Worked on the Performance Framework team at a major payments provider, responsible for building a new performance framework for their payments platform. A particularly technical challenge which involves into the complexities of JMeter, redesigning samplers to work asynchronously and scale horizontally, effective thread and performance usage.

  Technologies: JMeter, Java 8, Jenkins, Docker / Docker Compose, Maven

- **Global Toy Manufacturer & Retailer**
  Worked as an embedded DevOps consultant within a development team, responsible for designing and implementing the infrastructure and pipelines that the developers needed to do their work. Architected their testing suites and advised on test strategy, set up monitoring, alerting and enhancing the observability of the platform, and designing a frictionless deployment system for a microservice application.

  Technologies: GitHub Actions, Java, Spring Boot, AWS, Terraform, Kubernetes, ArgoCD, Kafka, Docker, Docker Compose

- **Challenger Bank Platform**
  Worked as a DevOps consultant on the platform tooling team, assisting all other tech teams within the company to effectively use the cloud platform. Challenges involved both the broadness and the depth of knowledge required to support the client, in a high pressure, high growth environment.

  Technologies: Terraform, Kubernetes, Golang, Jenkins, and a huge multitude of AWS services including Lambda, DynamoDB, S3, and Cloudwatch.

- **Credit Reporting Agency**
  Worked as a DevOps consultant on the platform engineering team for a SaaS platform. Primary responsibilities and activities included deploying and testing shared services and infrastructure used by the rest of the feature teams, such as the Kafka & Zookeeper clusters.

  Technologies: Terraform, Packer, Ansible, Jenkins, Kafka, Zookeeper

Test Engineer at eBay (March 2018 – June 2018)

I worked as an embedded tester within the business policies team, a tier 2 service for one of the world's highest traffic websites.

Activities:
- Pairing with developers working on features, fixing bugs and automated unit/integration tests
- Developing risk maps and coaching developers on how to effectively test and deliver high quality software.
- Regularly running exploratory test sessions to discover information about the complex legacy system.

Achievements:
- Assisting the team through a difficult and high risk project introducing international returns.
- Replacing the team's existing ineffective acceptance test framework with a modern Cucumber JVM suite based on specification by example.

Senior QA Consultant @ OpenCredo (2015 – 2018)

Major projects:

- **Large consultancy cloud inventory**
  Cloud discovery platform, implemented in AWS Lambda. Unit, integration and user acceptance tests in Javascript and Python, Jenkins pipelines in Groovy.
- **Government cloud broker**
  Developed the Java Cucumber / Selenium test suite, and Ruby infrastructure test suite.
- **Ethical supply chain organisation**
  Worked on the Java Cucumber / Selenium UI & API test suite of a large scale microservices application, deployed with Mesos / Marathon.

Consultant @ Infuse Consulting (2012 – 2015)
Infuse is an automated testing consultancy for the HP / Micro Focus test suite.

Major projects:
- **ITV**
  Developed Ruby Cucumber/RSpec acceptance tests, Gatling performance tests, and exploratory testing.
- **useMango**
  Led a team of graduate testers. Introduced new test strategy, training materials and resources, as well as automated testing and CI practices. Proposed, designed and wrote a suite of dogfooding tests that executed useMango's tests against itself.
- **Government project**
  Developing automated scripts using ALM and QTP. Post required SC clearance.

Science Teacher at Lampton School (June 2009 – September 2010)
- GTP course with significant direct teaching experience
- Students from ages 12-18 with a range of abilities

Education and Qualifications

University College London (2011 – 2012)
MSc (Hons), Computer Science

Imperial College London (2005 – 2008)
BSc (Hons), Physics

The King's School (2003 - 2005)
A-levels: Mathematics, Physics, English Language & Literature
AS Level: Further Mathematics

Professional Qualifications
- AWS Solutions Architect (associate)
- ISTQB Foundation in software testing
- AIS in Application Lifecycle Management
- Qualified Teacher Status

Other Interests

Video games, long distance running and hiking, indiepop music, cinema, current affairs.

References available on request.