David Trail

CONTACT
INFORMATION

11/6 Watson Crescent
Edinburgh
EH11 1HB

Mobile: +44 7816 930 167
Email: mr.dj.trail@gmail.com
DoB: 8th of January 1990

WORK HISTORY

DevOps Engineer, People's Postcode Lottery
January 2016 until the present day

- Dragons, here they lie.

Freelance Linux Sysadmin / DevOps Engineer
September 2014 until January 2016 (1 year 4 months)

- Repeat contracts for numerous clients generally in the area of Linux sysadmin and DevOps. Some software engineering and scripting
- Technologies: Docker, Qemu/KVM, OpenVPN, Ansible, Jenkins, Puppet, Python, Perl, Bash, AWS (Cloud Formation, EC2, S3, ECS, Route53, ELB, ASG, . . .), CloudFlare, Git, MySQL, PostgreSQL, Nginx, Apache, uwsgi, and more
- I have outlined below a portion of the work done for my clients over the years.
- Communication was key to my success with every client, and with their development teams.

Client: Daniel Medveczky, EQRaffle and RSBooster

- My client's project was overloaded and they hired me as a specialist who could move them to the cloud hypothetically allowing them to scale up infinitely.
- This was extremely enjoyable as I was given complete freedom to design from scratch their entire infrastructure within AWS. I ended up migrating their cPanel/WHM based single dedicated server to a staging/production environment hosted within EC2. I worked closely with my client and his developers to determine the right set-up for them and scaled it accordingly, it involved EC2 instances behind an ELB behind CloudFront connecting to an RDS instance with additional EC2 instances for development and monitoring.
- Technologies: AWS, EC2, RDS, Ansible, Sensu, Ansible

Client: Steve Tuttle, CloudWorks

- I was contracted to set up a continuous deployment strategy utilising AWS's Cloud Formation, EC2 and RDS alongside a Puppet master server to manage the Puppet agents. This required writing from scratch a Cloud Formation script with a variable number of EC2 instances which would bootstrap themselves from AMIs thus

allowing the instances to communicate with the Puppet master and automatically deploy their web app with continuous updates based on pushes to Github.

- This was a challenging but also very enjoyable role I have done. Working within Linux, AWS and DevOps is where I feel completely at home. The client's satisfaction with work gave me tremendous pleasure.
- Technologies: AWS, EC2, RDS, Route53, Puppet, PostgreSQL, troposphere, cloud-config, Cloud Formation

Client: Leo Hämäläinen, Devoca

- I was contracted as a Linux sysadmin to maintain their back-end servers, used by thousands of people for their hand-held label devices.
- Duties: Up-scaling operations; troubleshooting downtime; eradicating a rootkit that they'd contracted under a previous contractor; reconfiguring and optimising both Apache and MySQL; planning for minimal downtime during migrations; master-slave MySQL mirroring; scripting backups
- Technologies: Apache Servermix, Apache HTTP, Exim mail server, Ubuntu 14.04, iptables firewall, fail2ban, MySQL, DKIM + SPF, DNS

Client: Ellison Brookes

- For my London based client I deployed a Docker Registry using Amazon's container service, ECS and their storage service, S3. This allowed their developers to use their own Docker registry.

Freelance Software Engineer
July 2013 to September 2014 (1 year 2 months)
- Several large projects using Django + Python
- Web development
- Postgres + MySQL
- Bitcoin trading and investigation
- Linux system administration

Client: Éric Bisceglia

- Worked with Éric and another software engineer for ≈ 6 months
- Containerising altcoin instances to provide security in case of malicious users or hackers, ensuring uptime and redundancy for the web frontend/PostgreSQL backend on Microsoft's Azure platform

Software Engineer, Scotweb
June 2011 to July 2013 (2 years 1 month)

- Commercial web development and maintenance
- Linux system administration
- Twisted Python / Python development
- Full stack deployment and configuration
- Web development (HTML/CSS/jQuery)

Village Orderly, Aberdeenshire council
July 2007 to September 2010 (3 years, 2 months)

Kitchen Porter, Valentinos restaurant
June 2004 to June 2006 (2 years)

EDUCATION Computer Science BSc, **Heriot-Watt University**
September 2007 to May 2011

2nd year	3rd year	4th year
Database Management	Artificial Intelligence	Distributed Systems
Discreet Mathematics	Operating Systems	Parallel Technologies
Internet Communications	Computer Graphics	Data Mining
Software Design	Professional Development	Machine Learning
Formal Specifications	Concurrency	Biological computation

OTHER
- Achieved Intermediate level Spanish at the Escuela Oficial de Idiomas
- Raised £1,050 for MND Scotland in a charity Skydive
- Maintain Github and Bitbucket profiles
- Always up to date with the latest DevOps tech
- Attend the Edinburgh AWS, Docker and DevOps meetups

REFERENCES Multiple references available on request.