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 May 2016 (6 months)

- In depth work with Ansible
- Working intimately with the developers, DBAs, managers and IT
- Maintenance of the dev/staging/acceptance/production environments
- Primary sysadmin of $\approx$ 200 servers
- Continuous deployment
- Setup and use of Ansistrano/Capistrano
- Atlassian suite (JIRA, HipChat, Confluence, Bitbucket)

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, RSBooster, . . .

- My client's project was overloaded and they hired me as a specialist who could move them to the cloud for scalability.
- This was extremely enjoyable as I was given complete freedom to design from scratch their infrastructure. I migrated their single cPanel based dedicated server to a staging/production environment on AWS's EC2. I worked closely with my client and his developers to determine the correct set-up for them and scaled it accordingly, it involved EC2 instances, an ELB, CloudFront, RDS databases and monitoring.
- Technologies: AWS, EC2, RDS, Git, Ansible, Sensu

Client: Steve Tuttle, CloudWorks

- I was contracted to create a continuous deployment strategy utilising AWS's Cloud Formation, EC2 and RDS alongside a Puppet master server to manage the Puppet agents. This required using Cloud Formation with a variable number of EC2 instances which would bootstrap themselves from AMIs allowing the EC2 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 enjoyable role. Working with Linux, AWS and the DevOps stack is what I love.
- 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 $\approx$ 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

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

REFERENCES   References available on request.