

# David Trail

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DoB: 8th of January 1990

## WORK HISTORY **Freelance Linux System Administrator** *September 2014 until today*

- Repeat contracts for numerous clients generally in the area of Linux DevOps/sysadmin/software engineering
- Technologies include: Docker, Qemu/KVM, OpenVPN, Puppet, Python, Perl, Bash, AWS (Cloud Formation, EC2, S3, ...), Cloud-Flare, Git, MySQL, PostgreSQL, Nginx/Apache/uwsgi, etc
- Duties include: migration, configuration and set-up, security, service optimisation, monitoring, benchmarking, auto-scaling, networking, ...

Client: 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 deployed servers. This required writing from scratch a Cloud Formation script with a variable number of EC2 instances which would image themselves from an AMI which would connect to a Puppet master server and auto-configure themselves with an app hosted on Github.
- This has been the most challenging but also most enjoyable role I have done so far. Working within Linux, AWS and DevOps is where I feel completely at home and find myself loving the work that I do, impressing myself with my own abilities.
- Technologies: AWS, EC2, RDS, Route53, Puppet, PostgreSQL, troposphere, cloud-config, Cloud Formation

Client: Leo Hämäläinen

- Leo has been my client for the past  $\approx 7$  months
- I have been contracted as a Linux sysadmin for their operations at [devoca.fi](http://devoca.fi), a backend for their hand-held label device and other products with hundreds of clients throughout Finland and elsewhere who rely on Devoca's servers to operate
- Duties have included: Upscaling operations; troubleshooting downtime; eradicating a rootkit that they'd contracted under a previous contractor; optimising both Apache and MySQL's configurations; planning for minimal downtime during migration periods; master-slave MySQL mirroring; backup script writing

- Technologies include: Apache Servermix, Apache HTTP, Exim mail server (MTA), Ubuntu 14.04, iptables firewall, fail2ban, MySQL, DKIM + SPF, DNS
- Communication has been key to my success in this role

Client: Ellison Brookes

- For my London based client I deployed a Docker Registry using Amazon's container service, ECS and their storage service, S3

Client: EQRaffle

- Migrating Apache instances to AWS's EC2 with Elastic Load Balancing (ELB), an Auto Scaling Group and a MySQL DB hosted on RDS
- Setting up the development and production environment for my client to be able to quickly deploy their code to production via Github and Puppet

### **Freelance Software Engineer**

*July 2013 to September 2014 (1 year 2 months)*

- Several large projects using Django + Python
- Web development
- Postgres + MySQL
- Bitcoin trading, investment and development
- Linux system administration

Client: Éric Bisceglia

- Worked with Éric and another software engineer for  $\approx 6$  months
- Containerising app instances to provide security in case of a security breach, 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*

2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> 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 1 Spanish (**Escuela de Idiomas**)
- Raised £1,050 for MND Scotland in a charity Skydive
- Maintain Github and Bitbucket profiles
- Always up to date with the latest technologies in DevOps and Software Engineering

## REFERENCES

Name	<b>Dr. Greg Michaelson</b>	<b>Mr. Steve Tuttle</b>
Relation	Project supervisor	Client (DevOps, AWS)
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