

David Trail

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EH11 1HB *DoB:* 8th of January 1990

INTERESTS I have a very strong interest in programming, security and networking. My primary language is Python which I've become an expert in over the past 5+ years with daily usage of the language (including more advanced areas such as `asyncio`). I'm a Linux user at heart, I live life on the command line and love open source software. I have demonstrable skill not just with Linux on the desktop but within server/cloud environments – including networking, AWS, firewalls and virtual machines.

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

2 nd year	3 rd year	4 th year
Database Management	Artificial Intelligence	Distributed Systems
Discrete Mathematics	Operating Systems	Parallel Technologies
Formal Specifications	Concurrency	Biological computation

My 4th year project was a C++ program that hooked a D3D9 Direct X process and recorded its output to a video file. Project fully managed by myself including planning, design, implementation, testing, user feedback and documentation.

CAREER **Freelancer**, Edinburgh

Contract, freelance & side projects

September 2014 onwards

- I work for many clients, often troubleshooting their server or EC2 instance. Very varied work, from configuring nginx to sorting out iptables to deploying OpenVPN securely
- Use of nmap/wireshark/metasploit for network diagnosis and pentesting
- Experimenting with complex local networking amongst VMs running various distributions, using configuration management (Puppet) and more

Escuela de Idiomas, Salamanca, Spain

Learning Spanish & code projects

July 2013 to September 2014 (1 year 2 months)

- Learned Spanish from nothing to B1 proficiency
- Kept up to date with my coding, some of which can be found on [Github](#) or [Bitbucket](#)

- I ran a dedicated server which was leased out to various clients. I set up the VMs with Qemu, managed the networking and many of the clients' services

Scotweb, Edinburgh

Software Engineer

June 2011 to July 2013 (2 years 1 month)

- A lot of Python (with Twisted/Django). Also Perl, Bash and C
- Extensive use of Javascript with jQuery/ajax and its intercommunication with the Python server
- Administration of all the Linux/Mac machines
- Documentation, planning, feedback gathering and iterative design methodologies
- HTML5 and CSS3
- Caching and load balancing
- PostgreSQL query optimization and schema design