Andi Miller

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SKILLS AND EXPERIENCE

LANGUAGES

Scala	My main day to day language at DataSift, both in a java interoperable style, and in a functional style.
C	Covered during my degree, used it for university work and personal projects, wrote patches for OpenSIPS and Asterisk while at Gradwell.
C#	Learnt while at College, used for many personal projects including a network monitor, a few small games, some of which had network capabilities.
Java	Used during university for academic projects and used for multiple projects at DataSift.
PHP	Maintained old PHP webapps at Gradwell and DataSift, using it for some of my own sites too.
Python	Worked on Jokosher and PiTiVi as part of the Google Summer of Code, used for many personal projects including pizza-auth, a large scale LDAP user management tool for EVE Online alliances.

TECHNOLOGIES

Multithreading	I have experimented with many different threading approaches, and Functional programming languages, including Python's multiprocessing module, and Haskell.
Network Protocols	Have implimented a variety protocols in many languages, including IRC, HTTP, FTP and NTP.
Server Admin	Have experience with managing many types of servers, including various Linux and BSD distrubutions, and Windows Server. Also maintain my own VPS for personal use running Debian.
Typesetting	Writing up many project reports, and this CV in LaTeX. I have also written a couple of LaTeXto HTML converters.
UNIX and Linux	After using *NIX systems for many years, I am more than competent at administering systems running a *NIX-like Operating System.
Version Control	When coding I've used lots of Version Control systems, including SVN, Git and Bazaar.
Virtualisation	I maintain a set of Virtual Machines for testing personal projects, and to stay up to date with different Operating Systems with minimal effort.
Web Development	Multiple personal sites, making me familiar with XHTML, HTML5, CSS, AJAX and ECMAScript with and without jQuery.

EDUCATION

B.Eng. Software Engineering, Aberystwyth University, 2009 - 2013.

> 2:1, just below a First
> Averaged over 70% in core Programming modules.

Alton College, Alton, Surrey 2006 - 2008

> A-Levels: Further Maths - C, Maths - A, Physics - B, Computing - A.
> AS-Level: Electronics - B.

Churchers College, Petersfield, Hampshire, 2000 - 2006.

> GCSE: 2 A*'s, 4 A's, 3 B's, 2 C's

EMPLOYMENT

Software Engineer, DataSift (MediaSift Ltd.), June 2013 - Present

> Worked in an angile team developing scala microservices.
> Practiced agile test driven development in a team.
> Developed and maintained an in-house Domain Specific Language for transforming JSON
> Maintained client-facing API libraries and their documentation

VoIP Engineer, Gradwell dot com Limited, June 2011 to July 2012.

> Maintained and made improvements to one of the largest award-winning Open Source VoIP stacks in the UK.
> Regularly worked with both Support and System Administration departments.
> Worked in a variety of languages, including Perl, C, Python and Ruby.
> Worked in an engineering team using Jira and Mercurial.

Freelance Coder (Google Summer of Code), Google, Summer 2010.

> Worked to a strict deadline
> Integrated into the community
> Learned many new technologies, including:
> > DBus
> > GTK
> > Bazaar

Lifeguard, Taro Leisure Center, Petersfield, D.C. Leisure, 2007 - 2009.

> Acquired good Teamworking skills

VOLUNTARY WORK

Swimming Teacher, Petersfield Open Air Swimming Club, 2007 - Present.

Assistant Teacher, RSPB Wildlife Explorer Group, Pulborough, 2004 - 2008.

REFERENCES

Capacity	Tutor	GSoC Project Mentor
Name	Reyer Zwiggelaar	Michael Sheldon
Address	Department of Computer Science	Department of Computer Science
	Llandinam Building	Llandinam Building
	Aberystwyth University	Aberystwyth University
	Aberystwyth	Aberystwyth
	Ceredigion	Ceredigion
	SY23 3DB	SY23 3DB
Email	rzz@aber.ac.uk	elleo@gnu.org
Telephone	01970 622219	07957 686011