

# Andi Miller

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Portfolio: <https://github.com/andimiller/>

## 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

Large Stream Processing	At DataSift I gained experience building scalable stream processing systems with technologies including kafka, zeromq and redis.
Big Data	I also have experience with Hadoop and ELK for storing and indexing large datasets.
Parallel Programming	I enjoy writing parallel processing jobs, and have used python, hadoop and spark for it.
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 $\text{\LaTeX}$ . I have also written a couple of $\text{\LaTeX}$ to 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, Mercurial and Bazaar.
Virtualisation	I maintain a set of Virtual Machines for testing personal projects, and have experience administering KVM and OpenVZ clusters.
Web Development	I maintain multiple websites in my spare time, and am familiar with modern web development practices including HTML5, CSS, Websockets and Scala.js.

## 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 agile 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

Available on request.