

Michael Tomkins BE CompE / LLB

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[mich431.net](#) [resume.doc](#) [resume.pdf](#) [resume.md](#) [github](#)

Summary

a computer professional specialising in systems management, engineering and automation. I have industry experience in monitoring, configuration, reproducibility, optimisation and administration. I am currently looking for a position in system administration or system orchestration.

Work History

Freelance Web Developer and Systems Administrator Feb 2012 - Apr 2013, Jun 2014-Present

- AWS command line interface scripting to bring-up and terminate nodes quickly. EC2, SQS, VPC, IAM, RDS, S3, Route53 & CloudFormation.
- Git reuse and rollback.
- SSH remote code execution and log retrieval.

Service Engineer, Yahoo!7 Apr 2013 - Oct 2013

- Position was a mix of System Administration, DevOps and Quality Assurance Testing.
- Legacy systems maintenance. Including managing change migration and testing of new features to ensure system uptime.
- Bash, Perl and PHP script modification and usage. Wrote a database webservice that downloaded data with a cron job to show internal module dependencies. Modified a number of cron scripts in Bash. Read Perl scripts for video ingestion to remote web-services, modified to alter pickup and destination directories.
- Log analysis and root cause determination. Use of CL tools to create custom reports for management on incidents; tail, grep, awk, sed, ssh.
- Apache optimisation, monitoring and vhost editing, server configs for vanity URL's.
- MySQL admin, setup, configuration, replication and backup.

Web Manager, Sydney University Musical Society Nov 2010 - Jan 2012

- Coding to specifications.
- Dataentry, layout and cross-browser checking.
- Repackaging of module to new css layout to take a sidebar module and make it a main page module.

Business Application Developer, Fulton Technology Apr 2007 - May 2009

- 18 months of administering TASMIS system and ensuring that servers were operational on Solaris 9 remote server. This included; modification of startup scripts, manipulation of geodetic information, reformatting of data projections, removal of duplicate data, zombie process removal and monitoring of system availability.
- Entry of AGD66, WGS84 and GDA94 data onto ESRI framework. Manipulation and generation of reports based on that data. Performed a boundary translation from ADG66 to GDA94 formatting that was gazetted with the ADF.
- Extracted time sensitive data from historical data-sets to produce dynamic printable reports, using VB/macro scripting to produce reports in Microsoft Word. This report was submitted weekly as The Ministers FOI summary.
- Produced an arc translation method and JavaScript library from SVG point relative to PDF arc relative. This moved 7 data-points in an ESU system into a 6 data-point ENU system.
- Produced a reduction of data sets using convex hulls to simplify server interaction. This took an arbitrary set of unordered points and returned a hullset of ordered points.
- Sped-up user data download using grep and ftp (security hole!) to transfer 150k lines of CSV data into 10k of targeted data that became database entries on Lotus Notes.

Highest Qualification

- Bachelor of Engineering in Computer Engineering / Bachelor of Laws, University of Canberra, July 2006.

Technical Summary

Software Toolset

Apache	LXC / Docker	SaltStack
AWS	MySQL	screen
Exim4	Nginx	Vagrant
GCC	OpenStack	vim
GCE / GAE	PostgreSQL	VMware
git	Packer	VirtualBox
KVM / QEMU	Puppet	

Networking Technology

Bind / dig / DNS	IP4 / IP6	netstat
curl / wget	iptables	SSH
FTP / Telnet	mtr / ping	Wireshark

Operating Systems

Debian 2.2 - 8	Redhat 7 - 9	Ubuntu 12.04,
Gentoo 1.2-4	RHEL 5	14.04, 14.10
2004-5	Solaris 8 - 10	Windows 98, 2000
MacOS 10.2, 10.4-7		XP, 7

Programming, Mark-up & Scripting Languages

Assembler	Lex / Flex	Python 2/3
Bash / sh	LotusScript	Regular Expressions
Basic	m68k assembler	Ruby
C	Matlab / Octave	Scripting
C++	OpenGL	SQL
CSS	Pascal	VHDL
HTML	Perl / PCRE	Visual Basic
JavaScript	PDP-11 bytecode	XML
Lex / Flex	PHP	YACC / Bison