

Martin Alexander Conaghan BSc (Hons)

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High-achieving individual with a passion for technology, a history of academic excellence, leadership experience, a varied technical and non-technical skill set and polished communication skills.

Education

2011 – 2012 The University of Glasgow, *MSc Computing Science*, pending

- Courses including: Information Retrieval, Usable Security, Enterprise Computing, IT Architecture, Internet Technology, HCI and Advanced Operating Systems.
- Small research project concerning the barriers to the success of cloud computing
- Due to undertake Masters project June – September 2012, investigating the performance of IPTV over residential networks.

2004 – 2008 The University of St Andrews, *BSc Computer Science and Management*, 1st class honours

- Won IT Student of the year at Science, Engineering and Technology (SET) Awards 2008, organised by World Leadership Forum for my final year project.
- Graduated top of Computer Science 2008 class, winning class medals in 3 out of 4 years.
- Nominated for Scottish Young Software Engineer of the Year 2008
- Nominated for paid internship by School of Management in 2007
- Runner-up in university-run student essay competition

1998 – 2004 St Ninians High School, Giffnock, Glasgow

- 2 Advanced Higher As – Computing and Mathematics
- 6 Higher As – Computing, English, French, Mathematics, Music and Physics

Employment

2009 – 2011 Metaswitch Networks, *Software Engineer*

- Designed, coded, maintained and tested code in C, C++, Java, Perl, Python and shell scripts
- Worked extensively on (Red Hat) Linux, Solaris and Windows
- Lead developer on video voicemail project written in Java, using IMAP to store messages, SIP/SDP (VoIP) to negotiate video calls and FFMpeg library to manipulate H.264 video.
- Spent 6 months on scrum project to improve server performance by 4-5 times, involved re-writing malloc, analysing Java heap dumps to find memory leaks and investigating Java garbage collection.
- Spent 9 months as owner of large testing system, running 17,000+ Python test scripts daily on 20+ virtual machines, results stored on Django web server.
- Modified/maintained a small Nginx system

2005 – 2008 The Vineleaf Restaurant, St Andrews, *Supervisor/Waiter/Sous Chef*

- Including short spell as restaurant manager
- Supervising up to six members of staff at peak times

Voluntary Work

2011 – present The Dignity Project, *Trustee and Volunteer Co-ordinator*

- Advising charity on proposed 2012 educational project in Juba, South Sudan

2004 – 2008 Lasallian Developing World Projects, *Project Leader and Volunteer*

- Volunteered on 5 (Sri Lanka, Uganda, Ghana, Rwanda and Zambia) 5 week projects, 3 times as project leader.
- Solely responsible for group budget of over £2000, legally responsible for some volunteers
- Personally raised over £5000 to fund projects

Technical Projects

2011 – present Home Linux Server

- Built a dual-booting Linux (Ubuntu)/Windows 7 PC, including choosing and fitting CPU, RAM, hard-disk and DVD drive
- Runs Apache web server and hosts my personal website (www.martinconaghan.co.uk)
- Also used as SVN server and file server

2007 – 2008 Games Creation Tool for Children

- Final year undergraduate project
- Engineered software which allows young (6 – 12) children to build their own computer games
- Written in Python, designed for the original \$100 laptop (One Laptop Per Child organisation)
- Won SET IT student of the year, nominated for Young Scottish Software Engineer of the Year

2006 – 2007 Rogue Multi-Player Game

- Junior honours undergraduate team project
- Designed and built software to allow many players to play a dungeon game over a local-area network, including designing the network protocols which allowed different team's solutions to communicate.
- Within my team I owned the GUI design and implementation, and helped design the server.

2004 Projectile Simulator

- Advanced Higher Computing project
- Designed to aid Higher Physics students understand projectiles, written in Blitz Basic 3D

Additional Skills

- I have a basic proficiency in Spanish and French.
- I have a full UK driving license (no points).
- Small amount of website design, including using Django and Joomla

Interests

- Keen percussionist; played in West of Scotland Schools Wind Band, St Andrews University Orchestra, ceilidh band and as part of Edinburgh Fringe Festival show 2007
- Running; ran London marathon 2007 in 3 hours 26 minutes and Edinburgh marathon 2008 in 3 hours 25 minutes, as well as various half marathons and 10 kilometre runs
- Mountain-climbing; climbed Kilimanjaro (Tanzania), Mount Sinai (Egypt), Adam's Peak (Sri Lanka) and 12 (and counting) Scottish Munroes (including Ben Nevis twice)
- Football; play in football team competing in Strathclyde amateur league on Saturday mornings
- Travelling; visited every continent except Antarctica (only a matter of time!)
- Cooking; interviewed for contestant on Channel 4's Come Dine With Me (unfortunately not successful)

References

- Available on request