

Curriculum Vitae

Andrew

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Personal Profile

I am a bright computing graduate with a strong technical background. I have 6 years' experience in computer systems management, working in a multinational company that operates in a highly-regulated laboratory environment. I am currently looking to move into a more technical role.

Skills Profile

- Extensive knowledge of and passion for a diverse range of topics in computing, mathematics and science. (E.g., cryptology, 3D graphics, artificial neural networks, symbolic computation, data compression, digital signal processing, logic gate design, sound synthesis, kinetic simulations, etc.)
- Very long history of recreational and academic programming with a wide variety of programming languages, including Java, SQL, Tcl/Tk, Haskell, Smalltalk, Eiffel, Pascal, JavaScript, etc.
- Also familiar with technologies such as HTML, XML, CSS, XSLT, TeX, PDF, PostScript, AmigaGuide, POV-Ray, VHDL, Automake, CVS, etc.
- Long track record of very strong grades in technical subjects, particularly computer programming.
- Proven ability to readily learn new techniques and technologies. (E.g., learned the PostScript language in an afternoon. Leaned Tcl/Tk in a week.)
- Strong ability to express complex concepts in non-technical language, and to write technical documentation.

Employment History

2002 – Present

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System Administrator

- Responsible for keeping the UK computer systems operational. (Approx. 30 staff, 50 workstations, 4 servers, Ethernet LAN and Internet access.)
- Responsible for ensuring IT systems are operated in compliance with applicable regulations (particularly Good Laboratory Practice). This includes routine recording of all configuration changes (for audit purposes) as well as developing various documentation (see next point).
- Responsible for creating/updating computer policy and procedure documents, to be reviewed by external government and client auditors. (Several external auditors have specifically mentioned the high quality of these documents.)
- Designed, documented and formally tested the UK site computer disaster recovery plan.
- Developed a range of tools and scripts and to assist with various tasks. (E.g., automated remote backup, temp file removal, CD integrity checks, network monitoring, etc.)
- Technical support, fault-finding and general troubleshooting for all computer-related problems. Liaise with various staff to resolve problems, advise on technical matters, plan future upgrades, etc. Coordinate with IT departments from the company's other sites. Periodically interviewed by external auditors regarding regulatory compliance.
- Took over management of the UK site's Oracle database (particularly backup and restore). Previously this work was done by an expensive external contractor.
- Developed a remote backup script which allowed the company to avoid purchasing expensive commercial backup software.

Education History

1998 – 2002 DeMontfort University BSc Computer Science (2:1)

- Year 1: Programming in Smalltalk (an interpreted/JIT-compiled object-oriented language), grade A*. Other modules include basic computer hardware, soft systems analysis & design, and report writing.
- Year 2: Programming in Java, grade A. Other subjects include operating system architecture, basic computer networking (including TCP/IP) and research skills.
- Year 3: Relational database theory, grade A*. Also included a successful 6 month work placement with a small local charity.
- Year 4: Database design option, grade A*. Other modules include Computer Graphics option, Artificial Intelligence option, final year project.
- My final year project was a prototype Smalltalk implementation of a network-remote user interface framework. It allows an existing Smalltalk application to move its user interface to another network-connected machine with minimal modification to the application, variable granularity, and far lower overhead and greater responsiveness than existing technologies such as HTTP or RDP.

Hobbies & Interests

- Skiing, rock climbing and caving.
- Composing, performing and recording music (synthesizer, pipe organ, guitar, flute).
- Drawing.

References are available on request.