

Curriculum Vitae

Dr Matthew J. Johnson

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This CV is taken from <http://www.matthew.ath.cx/cv>.

For an updated copy in PDF format, and also on the web, please see that address.

Personal Details

Date of Birth: 23rd September 1981
Email Address: cv@matthew.ath.cx
Nationality: British
Driving licence: UK, Full, Clean

Education

2004–2008 **Computer Laboratory, University Of Cambridge**
PhD
Doctor of Philosophy in Computer Security
Thesis topic: consumer security devices for Internet banking

2001–2004 **Trinity Hall, University Of Cambridge**
MA
Masters Degree in Computer Science

1998–2000 **Peter Symonds College**, Winchester
A-levels: Maths (A), Further Maths (A), Physics (A),
Computer Science (A)

1991–1998 **The King's School**, Basingstoke
GCSEs: 10, (including 6 grade A* and 2 grade A)

Employment

- May 2008–present **Principal Software Engineer** , Progress Software
Principal software engineer in the core engineering group developing the Apama Complex Event Processing Engine. Responsible for planning and implementing new features as well as maintenance of the current product line.
http : //www.progress.com/apama
- Core Skills:* C++ and Java development on Windows, Solaris and Linux.
Domain-specific language development using ANTLR
Python scripting for comprehensive regression test suite.
Version control using Subversion
Working in an Agile team environment
Testing, test triage and defect fixing
Feature design and development technical leadership
- April 2002–May 2008 **Computer Support Group Member** , Trinity Hall
The group is responsible for support of student computers in College, and runs a pool of 32 Windows 2000 desktops available for use by students—including a server running Debian GNU/Linux as a Windows Domain, Controller and several other servers running critical network infrastructure.
http : //csg.trinhall.cam.ac.uk/
- Core Skills:* Linux and Windows system administration
Network infrastructure management
Development in Java, C++, Shell scripting, PHP and XHTML
- Jul 2004–Sept 2004 **IT Department** , Trinity Hall
Full time contract, developing bespoke firewall system and network administration software.
- Core Skills:* Linux and Windows system administration
Network infrastructure management
Development in Java, C++, Shell scripting, PHP and XHTML
- Jul 2003–Sept 2003 **Citrix Research Division** , Cambourne, Cambridge
Working with their Java Client development group, developing part of their printing subsystem, which is now included in their current product.
- Core Skills:* Java development on Linux and Windows
Version control using Perforce
- Aug 2000–Sept 2001 **Basingstoke Community Church** , Basingstoke
Full time work, split between systems administrator for the small business network, and voluntary schools & youth work for the church
- Core Skills:* Windows system administration and IT support
Teamwork, teaching and communication

Publications

- May 2008 **A new approach to Internet banking**
Submitted for the PhD degree and published in the University of Cambridge
Computer laboratory technical report series.
<http://www.matthew.ath.cx/publications/UCAM-CL-TR-731.pdf>
- April 2008 **A Real World Application of Secure Multi-Party Computations**
Presented at the 14th International Workshop on Security Protocols
<http://www.matthew.ath.cx/publications/2008-JohnsonOwen-duplimate.pdf>
- October 2007 **A New Approach to E-Banking**
Presented at the 12th Nordic Workshop on Secure IT Systems
<http://www.matthew.ath.cx/publications/2007-Johnson-ebanking.pdf>
- April 2006 **Usability of Security Management: Defining the Permissions of Guests**
Presented at the 14th International Workshop on Security Protocols
<http://www.matthew.ath.cx/publications/2006-JohnsonSta-Guests.pdf>
- April 2005 **Implementing A Multi-Hat PDA**
Presented at the 13th International Workshop on Security Protocols
<http://www.matthew.ath.cx/publications/2005-JohnsonSta-hats.pdf>

Current Positions

- February 2012–present **Area Judge for Magic: The Gathering**
Tournament operations for competitive events in the UK
<http://www.wizards.com/dci/judge/>
- Core Skills:* Teamwork and team leadership
 Methodical, analytical skills and organisation
 Customer service and communication
- December 2010–present **English Bridge Union Congress A Tournament Director**
European Bridge League NBO International Tournament Director
Tournament operations for major competitive events in England
<http://www.ebu.co.uk/>
- Core Skills:* Teamwork and team leadership
 Methodical, analytical skills and organisation
 Customer service

Open Source Projects

D-Bus I authored and maintain the D-Bus Java bindings
<http://dbus.freedesktop.org/>

Core Skills: Java development on Linux
Distributed version control with GIT

Debian I am a Debian Developer, maintaining several packages and regularly contributing bug reports and bug fixes for others.
<http://www.debian.org/>

Core Skills: Package creation and maintainance
Distributed version control with GIT
Collaboration within a distributed team
Bug triage and reporting to upstreams

Previous Positions

2004–2010 **Archery:**
Member, BUCS sports management group responsible for UK University Archery.
<http://www.bucs.org.uk/sport.asp?section=458>
Co-Organiser, UK University Archery E-League
<http://www.srcf.ucam.org/eleague/>
Secretary, then Captain, Cambridge University Bowmen
<http://www.srcf.ucam.org/cub/>

2001–2008 **Student computing:**
Trinity Hall student web/shell server system administrator
Trinity Hall MCR Computing Officer
<http://www-mcr.trinhall.cam.ac.uk/>
Membership Officer, then President, Student Run Computing Facility
<http://www.srcf.ucam.org/>
Committee Member, Cambridge University Computer Society

1998–2006 **Scouting:**
Assistant Scout Leader, 1st Whitchurch Scout Group
Scout Leader, 54th (St. Georges) Cambridge.

2003 **Game Umpire**, Cambridge University Assassins Guild
<http://www.srcf.ucam.org/assassins/>

1997–2001 **Sound Engineer**, Basingstoke Community Churches

Comments

I enjoy problem solving and challenges both generally, and specifically those involving computers. I have spent a lot of time involved with computers, both in the various positions and jobs I have done, and in my own personal time. I have a good working knowledge of several operating systems, and also several programming languages, and am comfortable with assembling and fixing PC hardware. I am also good at working with both specific, and more long time goals, and working without close supervision.

I am very competitive, in my spare time I compete for the University in both Bridge and Archery. In the latter I have several BUSA medals, I am regularly part of the University team in both University and national competitions and have been awarded the Full Blue, the University's highest sporting award.

I have a lot of recent experiences with programming for databases, and managing of large UNIX systems, and enjoy both of these. I have also been keeping up with more traditional programming, mainly in Java with which I am quite proficient.

I am involved with several Open Source Software projects. I am a member of the Debian Project distribution of Linux, maintaining several packages and I am the Java language bindings maintainer for the D-Bus Freedesktop project.

I am also very interested in the fields of computer security, and ubiquitous computing, both from the systems and theory contexts. My final year project involved Linux smart-card support and was supervised by a member of the Cambridge University Computer Laboratory Security Group, and my doctorate was affiliated with the Security Group.