

Matthew Byng-Maddick

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Date of Birth : 26th July 1977

Marital Status : Single
Nationality : British Citizen

Employment Experience

- April 2008 - present **BBC (iPlayer)¹**
Systems Engineer (Senior Software Engineer)
At iPlayer, I've been involved with day-to-day management of the servers supporting the BBC-written iPlayer code. I've also been involved with the engineering of the Electra (BBC iPlayer Desktop) licence servers, and the iStats (iPlayer reporting), as well as writing some of the original code for iStats. I've also been acting in a consultative role across other projects for ways to make services scalable and monitorable. I also designed and wrote the `mod_filemangle` countermeasures on the iPlayer iPhone offering.
- March 2005 - April 2008 **Venda Ltd²**
Senior Developer / Senior Systems and Networks Administrator
I started off as a developer on the Venda codebase, and having worked extensively on optimisations and new features, was able to move, in October 2006 to the Systems team. There, I helped implement TACACS+, a spanning network and lead maintenance tasks on databases and files. I was also involved in commissioning Venda's AS, and configuring the BGP routers, as well as the more day-to-day systems maintenance tasks and some new product systems engineering.
- April 2001 - March 2005 **The Bunker³ (previously A L Digital)**
Software Developer and Network Manager
In nearly 4 years at A L Digital (now replaced by The Bunker Secure Hosting), I was involved with many projects, many concerned with security, and later on in terms of building and maintaining networks. I was responsible for the design and build of a cut-down FreeBSD⁴ system for the deployment of cheap general purpose computers as routers, using quagga⁵. When I left, I was in the process of planning a replacement core network for hosting, with appropriate redundancy and monitoring. As a programmer, I was involved with security, both writing SSL libraries and doing security reviews (including one on OpenSSL⁶), as well as web application work carried out by A L Digital.
- July 1999 - April 2001 **Codix.net**
Software Developer and Systems Administrator
In July 1999, I helped Alex Nunes start up Codix.Net (now a part of Venus Internet) by setting up the internal network, procedures and development environments. I wrote much of codix's infrastructure, including a small templating system, a cryptographic session-management system, and I co-wrote a small-scale fast search engine. I was also involved with much of the web application work done by codix.
- August 1998 - October 1998 **Transaxion**
Freelance Software Developer
- August 1995 - October 1996 **STC Submarine Systems / Alcatel Submarine Networks**
Trainee Engineer

Publications

- February 2002 **Keyman: Trust Networks for Software Distribution⁷**
(not peer-reviewed)
Presented to: Workshop on Open Source Software Development⁸

¹ <http://www.bbc.co.uk/iplayer/>

² <http://www.venda.com/>

³ <http://thebunker.net/>

⁴ <http://www.freebsd.org/>

⁵ <http://www.quagga.net/>

⁶ <http://www.openssl.org/>

⁷ <http://colondot.net/mbm/dirc-paper.pdf>

⁸ <http://www.dirc.org.uk/events/ossdw/main.html>

Education

October 1996 -	Selwyn College, University of Cambridge
June 1999	Natural Sciences (Physics) MA Part Ia - (I), Part Ib - (II.2), Part II - (III).
August 1990 -	Westminster School
July 1995	STEP / S-Levels (3 Is, 1 II), A-Levels (4 As), AS-Levels (1 A), AO-Levels (1 A), GCSEs (6 As, 4 Bs)

Computer Experience

Familiarity with:

- POSIX, and the UNIX Programming Environment (and ANSI C)
- Linux (several distributions), FreeBSD, Solaris
- The Perl Language (and some Perl internals)
- Nagios Monitoring and SNMP (v1/v2c)
- SMTP, IMAP, and mail configuration (and some Exim internals)
- DNS and BIND8/9 configuration
- The Apache Webserver (and some of its internals)
- Shell Scripting
- SQL and some DBA (MySQL/PostgreSQL)
- Cryptosystems and the OpenSSL Cryptographic Library
- ZFS
- CVS and SVN

Exposure to:

- IOS, Routing, IPv4, TCP, Firewalling on PIXes and ASAs, OSPF, BGP
- Data OnTAP v7.0
- Zeus Extensible Traffic Manager
- Linux-HA (heartbeat)
- TACACS+
- RADIUS (Open System Consultants Radiator⁹)
- RANCiD
- DTrace
- GIT (Distributed Version Control)

Published free software:

- Crypt::Blowfish_PP¹⁰

Programming Languages:

- C
- C++
- Perl

Tools

- GNU CC (GNU C++) and a variety of make(1) implementations
- Gdb
- Perl
- The bourne or GNU bourne-again shell / sed / awk

Other

As well as the above, I have co-written and maintain a mail-based interface for registering domains using Tucows' OpenSRS¹¹ system.

Referees

Please contact me for addresses of referees.

⁹ <http://www.open.com.au/radiator/>

¹⁰ http://www.cpan.org/modules/by-authors/id/M/MA/MATTBM/Crypt-Blowfish_PP-1.12.tar.gz

¹¹ <http://www.opensrs.net/>