

David CROSS

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Skills Summary:

Programming Languages: Perl (including Object-Oriented Programming, CGI, DBI and Template Toolkit), Unix Shell Scripts (Bourne, C, and Korn Shells), Javascript (Including Ajax)

Mark-up Languages: HTML (including XHTML and CSS), XML (including RSS, XPath and XSLT)

Databases: MySQL, Oracle, Sybase

Web Servers: Apache (including mod_perl)

Operating Systems: Unix (Linux, Solaris), Windows

Version Control: Subversion, CVS, RCS

Networking: TCP/IP

Other Software: Standard Unix tools (awk, sed, grep, etc.), OpenOffice.org, Movable Type

Other Technical Experience:

- Author of *Data Munging with Perl* (Manning, 2001, <http://www.manning.com/cross/>)
- Co-author of *Perl Template Toolkit* (O'Reilly, 2004, <http://www.oreilly.com/catalog/perl/tt/>)
- CPAN module author (<http://search.cpan.org/~davecross/>)
- Frequent Speaker at Perl and Open Source conferences
- Author of articles for <http://www.perl.com/> and *Linux Format* Magazine
- Founder and former leader of the London Perl Mongers Group
- Former Perl Mongers User Group Co-ordinator for The Perl Foundation (<http://www.perl-foundation.org/>)
- White Camel Award Winner 2004 (http://www.perl.org/advocacy/white_camel/)
- Project leader on the *nms* project (<http://nms-cgi.sourceforge.net/>)
- Using Movable Type to run personal blog since 2002 (<http://blog.dave.org.uk/>)

Work Experience:

Oct 2008 - **Perl Developer (Contract)**

Feb 2009

LoveFilm Ltd, London

Working on a new streaming video service, concentrating particularly on the database access areas of the system. Pioneered the use of DBIx::Class in the company which made it far easier for developers to set up classes which interacted with the database. Designed a way for DBIx::Class to fit in with existing database access methods. Advised other members of the in the use of DBIx::Class.

Also developed APIs which sat on top of these classes and were used by front-end developers to create web pages. Working from high-level specifications written by business analysts and worked with front-end developers to determine exact requirements.

*Jul 2008 –
Sep 2008* **Blog Developer (Contract)**

Guardian News & Media, London

The Guardian has run its blogs using Movable Type for several years, but they are currently in the process of moving them into their in-house content management system.

This role involved maintaining and enhancing the current blog platform (editing templates, changing navigation, implementing new performance tracking code). There was also some work supporting the team who were porting the blogs to the new platform. This included advising them on the structure of the Movable Type database and providing data dumps to enable them to test their processes.

In parallel with this, there was also work acting as a general “toolsmith”, providing useful utilities to the development team. In particular, I built a system that parsed data files containing details of Cyclometric Complexity and made that data available to developers through a web-based application.

*Jul 2007 –
Jun 2008* **Developer (Contract)**

UBS, London

Maintenance and development on a project which allows developers to reverse engineer a database schema from Oracle and Sybase database servers. The files generated can be stored under source code control and any changes made to these files can be applied to the database server in an intelligent fashion. This system is a strategic tool which is used by many of UBS's internal development teams to keep track of database schema definitions. The source code is approximately 100,000 lines of highly object-oriented Perl code.

Major Achievements

- Designed and implemented a four-fold speed increase in Oracle processing
- Prioritising bugs from many user groups.
- Organising software releases to UBS's global network of file servers

*Apr 2007 –
Jun 2007* **Software Engineer (Contract)**

BBC Future Media & Technology

Developer on an internal web service which distributes schedule information to many BBC web applications. Service written in Perl (using DBIx::Class and Catalyst), uses MySQL to store data and runs on Apache under Solaris.

*Apr 2006 –
Mar 2007* **Web Developer (Contract)**

UBS, London

Developer in the storage management group. Writing web-based reports to monitor storage usage and measure group KPIs.

Major Achievements

- Set up intranet site for storage management group
- Process daily data feeds from Veritas monitoring software
- Design and implement system database
- Design and build daily and weekly reports using Perl, Template Toolkit, Javascript and Ajax

*Jul 2005 –
Mar 2006* **Developer (Contract)**

BBC New Media and Technology, London

Developer working on various aspects of the BBC's main web site. The systems were implemented in Perl using an Oracle database running on Solaris.

Major Achievements

- Maintenance and enhancements on a number of systems used to build the BBC's home page
- Work on implementing replacement data feeds
- Liaison with web producers responsible for content of web site
- Main maintenance developer on postcode application

Jan 2005 - Jun 2005 - **Developer (Contract)**

Guardian Unlimited, London

Developer working on various aspects of this award-winning web site using various technologies including Perl, Javascript, XSLT and Oracle running on Linux and Solaris. This included not only the public facing web site but also a number of internal content management tools

Major Achievements

- Various fixes to browser-based applications to increase cross-browser compatibility
- Work on an application to take XML data feeds from newspaper systems and convert them for web site use using XSLT
- Various bug fixes and enhancements to Perl programs
- Liaison with users of the internal CMS tools

May 2004 - Dec 2004 - **Senior Perl Developer (Permanent)**

Outcome Technologies, London

Senior developer working on systems to gather data on the effectiveness of medical treatments. Systems built using Perl (mod_perl), Apache and MySQL on Linux servers.

Major Achievements

- Introduction of Template Toolkit and Class::DBI to increase programmer efficiency
- Design of localisation framework
- Line manager for team of four developers
- Development of system to move configuration from code to data

Jan 2004 - Mar 2004 - **Developer (Contract)**

KarmaDownload.com, London

Complete redesign and reimplementaion of the web site for online record company.

Major Achievements

- Replacement of old Windows/IIS/Access/Cold Fusion architecture with Linux, Apache, MySQL and Perl
- Automation and streamlining of business processes
- Integration with third party online payment system

Oct 2003 - Dec 2003 - **Developer (Contract)**

Guardian Unlimited, London

Various tasks involved in the maintenance and development of GU's award winning website.

Major Achievements

- Design and implementation of system to filter and load NewsML files into database using XPath
- Refactoring of various data feed systems
- Mentoring team members on Perl and Extreme Programming

Dec 2002 - Sep 2003 - **Developer (Contract)**

AMP, London

Support and enhancements on AMP's financial information website. Site implemented using Perl, Apache and Oracle on Unix platforms (Linux and Solaris).

Major Achievements

- Training and mentoring other developers in Perl and web technologies
- Design and development of system to extract statistics on the success of marketing campaigns (implemented in Perl and SQL)
- Face to face interaction with marketing team to identify and fix problems with the web site

Jun 2002 - **Technical Architect (Permanent)**
Nov 2002

Bibliotech, London

Technical design and implementation for a web-based community aimed at schools. Site was implemented using mod_perl with Informix as the back-end database with Linux and Solaris as the server operating systems.

Major Achievements

- Integrating site with WorldPay ecommerce services using Perl over HTTP and HTTPS
- Interfacing RSS data feeds with site
- Design and implementation of web-based interface to file storage area of site
- Work on performance tuning site. This involved work on Perl programs, mod_perl configuration and SQL queries

Mar 2002 **Developer (Contract)**

Alaris Medical Systems, Basingstoke

Refactoring work on a web-based system for booking repairs to medical equipment. Perl scripts communicated with SAP using an XML interface. Resulting XML converted to HTML using XSLT.

Major Achievements

- Refactoring of a number of Perl programs into one program driven by a configuration file
- Development and testing of XML queries to interface with SAP

Jan 2001 - **Developer/Trainer (Contract)**
Jan 2002

Acxiom, London

This contract was split equally between working as a developer in one of Acxiom's development teams and devising and running internal Perl training courses.

Major Achievements

- Implementation of a system to reconcile new contact data against existing contact records
- Building a system to send emails automatically to users who had registered on a web site
- Design and implementation of a rule-based system to process the responses from questionnaires
- Devising and running training courses

Sep 2000 - **Developer (Contract)**
Dec 2000

Sportal.com, London

Working in the feeds team of this sports web site. The feeds team handled both incoming and outgoing data feeds.

Jun 2000 - **Developer (Contract)**
Aug 2000

Credit Suisse First Boston, London

Working in the European Financial Control Group on a system which ran overnight to make various trade and position information available to Financial Controllers.

Nov 1999 - **Webmaster/Developer (Contract)**
May 2000

Industrial Bank of Japan, London

Trialling the use of intranet technology within the bank. This role involved a large amount of high level architectural work as well as installing and configuring a web server and implementing various systems using it. Also working on a system which took data from a Stratus system and loaded into a Sybase database.

Sep 1999 - **Support Team Leader (Contract)**
Nov 1999

Fidelity Investments Ltd., Kingswood, Surrey

Leading a team of three people which acted as second-line support for Fidelity's customer-facing web site. Technologies included Perl, Sybase, HTML, XML and Java Servlets.

- Jun 1999 - Aug 1999* - **Developer (Contract)**
QXL Ltd., London
 Various tasks as part of a major redesign of QXL's web site. Both the look and feel and the back end processing were changed.
- Jun 1998 - Apr 1999* - **Developer (Contract)**
Credit Suisse First Boston, London
 Working with large Sybase database used for Equity Research. The system was undergoing many changes to enable it to handle the Single European Currency.
- Nov 1996 - Jun 1998* - **Developer (Contract)**
SBC Warburg, London
 Working with a large, globally replicated Sybase database containing the bank's major data warehouse.
- Oct 1995 - Sep 1996* - **Team Leader (Contract)**
Nomura Research International, London
 Recruiting and leading a team of four developers working on the design and development of a system to produce Middle Office reports from a Sybase database.
- Apr 1995 - Oct 1995* - **Developer (Contract)**
Banque Paribas, London
 Design, development and maintenance on a back-office accountancy system taking data from various internal and external feeds and reformatting it for use in Dodge.
- Feb 1993 - Apr 1995* - **Senior Analyst Programmer (Permanent)**
The Walt Disney Company Ltd, London
 Design, development and user support on a retail decision support tool.
- Aug 1992 - Feb 1993* - **Software Engineer (Permanent)**
Comtext International Ltd, London
 Designing and developing GUI front end to Telex/Fax/Email service using C++ cross platform development tools (XVT) and Visual Basic.
- Aug 1988 - Aug 1992* - **Programmer/Senior Programmer (Permanent)**
Learmonth & Burchett Management Systems Plc, London
 Design and development largely based around the data modelling part of a CASE tool.

Education:

- 1984 - 1988* - *South Bank Polytechnic, London*
 First Class BSc Honours degree in Computer Studies
- 1981 - 1982* - *The City University, London*
 Studied first year of BSc in Applied Physics
- 1974 - 1981* - *Clacton County High School, Clacton-on-Sea*
- 1979* - GCE 'O' Levels in Mathematics, English Language, English Literature, Physics, Chemistry, German and History
 GCE 'AO' Level in Geology
- 1981* - GCE 'A' Levels in Pure Mathematics, Applied Mathematics and Physics