

# Dr Raymond Miller

*Software Developer & Bioinformatician*

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## Profile

Experienced programmer with a postgraduate-level mathematics education and excellent analytical and problem-solving skills. Self-motivated with a proven track-record in both team and independent working, reliable and able to organise and prioritise tasks to deliver projects on time. Seeking a challenging position that will further develop technical and analytical skills.

## Key Skills

Programming Languages	Perl, bash, Java, Clojure, C, SAS
Modern Perl	DBIx::Class, Catalyst, Moose
Bioinformatics	Bio::Perl, EnsEMBL, exonerate, LIMS, LSF
Relational Databases	Oracle, PostgreSQL, MySQL
Developer Tools	Emacs, NetBeans, Subversion, git, Jenkins, Redmine, RT
Systems Administration	Apache server management, network and OS security, network file systems, secure authentication, directory and database services, software deployment, automated configuration management

## Education

- 1997 **PhD**, *University of Exeter*.  
Algebraic Number Theory
- 1993 **BSc(Hons)**, *University of Exeter*, *1<sup>st</sup> Class*.  
Pure and Applied Mathematics

## Employment History

- Jun 2009–present **Senior Software Developer**, *Wellcome Trust Sanger Institute*.  
Work as part of the team providing lab tracking (LIMS) and informatics support to the High Throughput Gene Targeting project.  
Main achievements include:
- Automated design of conditional gene knockouts
  - Web service for Southern blot enzyme selection
  - Automated prediction of mutagenic effect of gene knockouts
  - Configurable pipeline for analysis of QC sequencing data
  - Support of Catalyst web application for lab tracking
  - Database schema design for new lab tracking system

- Apr 1999–Sep 2008 **Systems Development and Support Section Manager, University of Oxford.**  
Managed a team of 8 developers and systems administrators delivering Linux-based services in the University's central Computing Services. Almost 100 Debian GNU/Linux servers. Provided 8TB mail store to 35,000 users; secure single sign-on; database and directory services; Subversion VCS; static and dynamic web services; network files systems. Responsible for technical strategy; systems architecture; system and network security; backup and disaster recovery; hardware procurement; and smooth day-to-day running of services.
- Jan 1998–Apr 1999 **Consultant Analyst/Programmer, Unisys Ltd.**  
Technical lead for team of 12 developers working on COBOL/DB2 mainframe application development in banking sector; responsible for technical guidance, testing, code review, QA.
- Oct 1996–Dec 1997 **Graduate Trainee, F.I. Group (now Xansa PLC).**  
Work placement in insurance sector; mainframe COBOL/CICS/IMS application support and troubleshooting; technical support to SAS users.

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## Other Activities

- UKUUG Director and Chairman of UKUUG Council (the UK's Unix and Open Systems User Group) from Mar 2004–Dec 2006. Responsibilities included chairing meetings, liaising with sponsors, and organising tutorials and events including UKUUG's successful Large Installation Systems Administration conferences in 2004, 2005 and 2006.
- Food and cooking Completed the Basic Cookery Diploma at Ashburton Cookery School and worked for 7 months as a chef in one of the UK's top gastropubs.
- Cycle touring Active member of the Cyclists' Touring Club
- Project Euler Currently ranked 75 of almost 4,000 English participants