

Profile

Motivated Software and Database Engineer with over 15 years' experience in a variety of technologies. Strong team-working skills, with flexibility and ability to learn quickly and on-the-job. A lateral approach to problem solving. Understands the importance of a customer focused approach – both internal and external, and has strength and interest in mentoring others and in increasing a team's overall knowledge base

Key Skills

- C/C++, UNIX/POSIX scripting (sh/bash/ksh), php, Python
- API specification and development
- RDBMS, Oracle 9i/10g/11g, OCI, PL/SQL, MySQL, PostgreSQL
 - Oracle Certified Associate DBA at 9i and 11g
- SCM, Clearcase, Subversion, git
- Linux, HP-UX, SAN technologies (EMC, HP, IBM and dotHill)
- Mentoring

Experience

Concept Systems Ltd.

Aug 2013 – Dec 2014

Edinburgh

Contract Software Engineer

- Re-implemented PostgreSQL DB back end of seismic navigation system, including schema remodelling and refactoring C++ API.
- Various PostgreSQL DB tuning tasks.
- Defect fixing in a variety of areas e.g. Qt GUI work, newer C++ components and legacy C code.

JDSU

2011 – 2013

Edinburgh

New Product Introduction Engineer

Nov 2011 – May 2013

- Defined support ticket process for new product spanning independent business groups.
- Provided requirements into product lifecycle for deployment and supportability.
- Covered the technical planning and roll-out of a number of new releases over several products at lead customers, plus general technical support to various parts of organisation in areas of technical expertise.
- Lead in introduction of replacement DB technology based on Infobright and MySQL to replace Oracle in TDR storage solution. This incorporated training of field engineers for support tasks.
- Worked closely onsite with customers to determine system expansion requirements, including SAN and server hardware. Involved working with 3rd parties to re-architect poorly performing storage set-up with Oracle DB.
- Defined custom internal Oracle and Linux training.
- Specified, procured and implemented oVirt based VM system for support and pre-delivery test.

Senior Tier 3 Development Engineer

Feb – Nov 2011

- Database Specialist (Oracle)
- Returned to division previously owned by Agilent to solve DB tuning and scalability issues at multi-million dollar customer. Worked closely with field and R&D teams to recover customer confidence by demonstrating consistent and significant improvement in serious performance issues.

Toshiba Medical Visualization Systems (Europe)

Aug 2010 – Feb 2011

Edinburgh

Senior Development Engineer (fixed term)

- Development of config and other APIs for use in both C# and Visual C++

- Defining SCM toolkit system using Python and Subversion, in combination with continuous integration build system Hudson
- Technical supervision of graduate engineers.

Agilent Technologies (formerly HP)

1999 – 2010

South Queensferry, Lothian

Senior Development Engineer

2002 - 2010

- Senior Engineer developing the Oracle and C/C++ based database component of world leading telecoms network troubleshooting system, handling a constant rate of tens of thousands of inserts per second per location over tens of databases with near-realtime data availability while maintaining the high levels of query responsiveness required for on line problem solving
- Set up and administered project's overnight build/unit test suite infrastructure. This was vital in team becoming "best-in-class" within division for defect containment and other quality metrics
- Team build and configuration management responsibility for 15-20 developers covering 3 projects
- General and performance DBA work both during system installation and real world usage. This included working with multi-function teams over multiple locations on numerous occasions to troubleshoot and solve both insert and query performance issues on live systems
- Graduate and intern recruitment, mentoring and personal development. Worked closely with, and mentored, 3 different graduate engineers to help them begin their careers successfully; and supervised 3 interns in various projects
- Heavily involved with the successful transition of this project to a development team in China, including giving hands on training in Beijing
- Customer deployment and installation experience, liaising closely with field and support teams
- Investigated a replacement of Oracle with a mySQL-based solution with an India-based in-house engineering team and mySQL employees

Graduate Development Engineer

1999 – 2002

- Protocols build manager. This involved collaborating extensively with a Chinese development team and analysing telecoms protocol specs prior to implementation in China; along with responsibility for build management, test and release of a large number of small, rapid turnaround components
- During this time was also jointly responsible for the transition of these small components over to a redesigned Clearcase-based SCM system
- Development in C/C++ and Agilent proprietary protocol language in HP-UX and Linux environments
- Extensive use of SS7, TCP, GSM/GPRS protocols

Education

University of Strathclyde, Glasgow

1995 - 1999

- BEng(Hons) Computer and Electronic Systems at 2:2
- Included 5 month internship at Sun Microsystems
- President of Halls of Residence Committee within the student union

Kingussie High School, Kingussie, Highland

1989 - 1995

- 5 Highers at AAABC

Interests

Cooking, Drumming, Skiing, Travel (inc. following the Scottish national football team)

Languages

English (native), Conversational German

Other Qualifications

Full Member of both the BCS and IET
 Full UK driving licence
 Annual Agilent & JDSU Standards of Business Conduct / Ethics courses

References

References are available on request