ADAM LOWE

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Work Experience

Senior Software Engineer   September 2013 - Present
SmartFocus UK, Bournemouth

- Designing,implementing and integrating e-mail, web and mobile personalisation software.
  - Big data solutions utilising HBase and ElasticSearch in the cloud;
  - Writing production implementations of new personalisation algorithms;
  - Integration with web interface and mobile UIs and clients (JSON API spec and delivery).
- Agile (scrum); Java (Maven, Jenkins, JUnit); git; DevOps; AWS (EC2 and S3), HBase, ElasticSearch.

Senior Software Engineer   April 2011- August 2013
Cloudsoft Corporation, Edinburgh

- Designing and implementing cloud management systems.
  - Integration with public and private clouds — mostly Java integrations with RESTful APIs
- Improved continuous integration by introducing Maven and Jenkins.
- Maintaining a messaging system for distributed networks:
  - JMS and AMQP messaging using ActiveMQ and RabbitMQ, respectively.
- Agile (scrum); Java (Maven, Ant, Jenkins, TestNG); git; DevOps; Groovy; OSS (primarily Apache jclouds); AWS (EC2 and S3), OpenStack (Nova, Swift, Keystone and Glance), Cloud-Stack, Terremark and VMware APIs.

Senior Software Engineer   February 2007 - March 2011
Yell, Edinburgh

- Member of architecture group for new enterprise system for advert management world-wide; technical project lead for some components of the system:
  - JMS messaging using ActiveMQ.
  - JBPM for business process management.
  - Web services, primarily exposed by CXF (SOAP-Lite for legacy Perl systems).
- Technical project lead for a number of projects altering Yell's bespoke pre-press system.
- Training and mentoring local and off-shore engineers to enable ongoing maintenance.
- Gathered requirements directly from the customers, both in the UK and the US.
- Agile (scrum); C++ (MFC); Java (Spring, Ant, Maven, JUnit); Perl; Oracle; PostgreSQL; Web Services (CXF, Axis); J2EE (JBoss AS, ActiveMQ); ESB (Mule, JBPM).

Application Developer   January 2002 - January 2005
European Bioinformatics Institute, Cambridge

- Lead architect and engineer for a new indexing and data warehousing software:
  - Low-level C++ file-based indexing system for querying 100s GBs data in a few ms.
- Developed network services in Java and Perl for deployment in Unix environments.
- Mentoring other engineers, as well as scientists, undertaking programming tasks.
- Attended meetings and workshops across the EU to facilitate software engineering projects.
- C++ (STL, Unix); Java; Perl; Oracle; MySQL; LSF; Web Services; XML-RPC.

Senior Database Engineer   June 2000 - August 2001
National Center for Biotechnology Information, NIH, Bethesda, USA

- Systems analysis of the NCBI's genome processing pipeline.
- Lead software engineer for a number of software sub-systems required for the initial annotation of the human genome.
  - Automated retrieval of entire genomes from GenBank to import into AceDB.
  - Integrated AceDB genome annotation results into the NCBI's Sybase data-warehouses.
- Built a new web front end to AceDB to allow the data to be viewed from AceDB: (http://aceview.org)
- C/C++; Perl; Solaris (sh/csh).

Genetic Data Analyst/Programmer   October 1998 - June 2000
Cancer Research UK, John Radcliffe Hospital, Oxford

- Independent development of statistical analysis software required by the laboratory: mostly Java applications with RDBMS integration (J2EE and Oracle).
- Java (J2EE); Fortran; Oracle; PostgreSQL; Solaris administration.

IT Support Officer   November 1997 - October 1998
University of Oxford, John Radcliffe Hospital, Oxford

- General computing support, systems administration and systems programming for 300 staff.

IT Supervisor   January 1997-September 1997
EMPICS Sports Photo Agency, Nottingham

- Responsible for the maintenance of the company's computers and networks.

Systems Administrator   June 1996-December 1996
Esparto Digital Limited, Derby

- Unix (Solaris) administration, network support for PCs, Macs and Sun workstations.

Computer Technician   March 1996-June 1996
BDO Stoy Hayward, Nottingham

- Provided technical support and maintenance of database applications written in dBASE.

Programmer   September 1995-January 1996
Experian, Nottingham (formerly CCN Group)

- PL/1 programming for the Mail Order department.

Education

MSc Distributed Scientific Computing (formerly MSc e-Science)
The University of Edinburgh 2005-2006

BSc Computer Science (2.2)
The University of Nottingham 1992-1995

A-levels: Biology (B), Mathematics (A) and Physics (B)
Ferndown Upper School 1987-1992

Referees

[Please contact Adam for references]