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Employment

Techscape Ltd (April 2016 - Present)

Director

The company under which I operate as a contract software developer.

Infinity Works (April 2018 - Present)

NHS Apps and Wearables Developer Portal

The Apps and Wearables project aims to provide a portal in which an App developer can submit their App to the NHS to review for inclusion in their library of approved Apps.

.NET Core, PHP, Python, MySQL, Docker.

Hermes (April 2017 - March 2018)

Pulse Replacement Project

This project focused on replacing the existing parcel delivery and tracking system with a state of the art microservice based system capable of scaling to the demands of peak season delivery times.

Java 8, Spring Boot, Cassandra, RabbitMQ, REST, Oracle, DB2, SFTP, Docker.

Equal Experts (April 2016- Present)

HMRC API Platform

As a Scala developer I worked on HMRC's API platform, a platform allowing third party software houses to obtain data from and publish information to HMRC via a suite of REST APIs. This project involved creating and maintaining Scala Play based APIs for the platform, and maintaining and enhancing the platform infrastructure running in a dockerised cloud platform.

Scala, Play, Scala Test, Java, REST, RAML

William Hill, Leeds (Sept 2011 – April 2016)

As a Development Lead I reported to the Head of Development working on a variety of projects and line managing several teams. I also worked with the other Development Leads and Architects in defining and rolling out development best practice.

Spanish Regulatory Integration

Trading in Spain entailed writing all transactions into a secure data store. This involved working with third party suppliers and the Spanish governing body to integrate with their systems. This involved consuming and writing to SOAP and Restful APIs and creating out own internal Restful APIs.

Trading

I worked on several Trading projects involving generating and publishing odds for our sports betting markets. These included a large refactoring of the core codebase into micro services, integration of a third party feed into our systems and a new lightweight modular trading platform designed to improve delivery times. I managed 2 of the 4 trading teams during this time whilst

remaining hands on with the development.

William Hill Cloud

I was the development lead on the Cloud project building an internal cloud from the ground up. This ambitious project delivered an internal "AWS" style platform. It used VMWare's VSphere virtualisation platform, Puppet and Docker to automatically build a software stack fully networked and load balanced from a manifest document. This enabled fast and safe horizontal scaling, Blue-Green deployments and a simple DR solution.

Java, Spring, Spring MVC, Spring Boot, Spring Integration, Ruby, Grape, Rack, Docker, Vagrant, git, Scrum, Kanban, REST, ActiveMQ, Grails, Tomcat, SOAP.

JD Williams, Manchester (Feb 2008 – Sep 2011)

I joined JD Williams as a Senior Java Developer and was promoted to Software Architect in 2010. Various projects were undertaken, including the following 2 year project for which I was Technical Lead:

Supplier Integration (Technical Lead)

We built a number of SOAP and RESTful web services, orchestrating these using the JavaCAPS SOA framework to deliver a system for suppliers to send us their product information in XML or CSV format which was then transformed and written into the many internal systems. We also built a Rules Engine to transform supplier data, and built frontend interfaces for the project and Rules Engine using JSF IceFaces.

Software Architect

The role involved assisting Technical Leads in making design decisions, writing Standards/Patterns/Best Practices documentation and drawing up Systems Architecture Documents. Other work included performance testing key areas of our systems and creating proof of concept applications. **Java, JSF.**

Java, JPA, JSF, JavaCAPS, Struts 2, REST, AJAX.

Rental Result, Elland, West Yorkshire (Nov 2006 – Jan 2008)

As a Java Developer I worked on many parts of the company's flagship Rental Management product. I also designed and developed a Jython based Swing testing framework using Jemmy and JUnit. **Java, J2EE, Swing, Python, JBoss, Cruisecontrol.**

HPI Ltd, Harrogate, North Yorkshire (Sept 2005 – Nov 2006)

I worked as a Java Developer at HPI working on J2EE web applications using an XP based Agile methodology. This involved working on the Struts based frontend, the EJB/JMS business layer and JDBC/SQL backend. I also implemented a website automation framework in Python for running functional tests on the applications. I was also instrumental in developing the company's internal CMS system based on OpenCms. **Java, J2EE, JMS, Struts. XP based Agile.**

British Library, Boston Spa, West Yorkshire (June 2004 - Sept 2005)

As an Analyst Programmer I worked toward bringing the Library ordering systems up to date. The work involved full life-cycle product development of Java based SOAP webservices (using Apache Axis) to build distributed systems. The work involved integrating legacy systems on the Vax VMS with systems on Windows 2003 and Solaris servers. **Java, SOAP, Perl, Python.**

University of Leeds, Leeds, West Yorkshire (June 2001 - June 2004)

At Leeds I worked as a Research Officer in the School of Computing on a project focused on reasoning with discrete models of space, for example raster data. The programming aspect of my work (here and at Keele) involved implementing algorithms to model mathematical theories. The models were developed in Java Swing to create graphical models. **Java, Swing.**

Keele University, Keele, Staffordshire (June 2000 - June 2001)

As a Research Assistant in the Dept. of Computer Science, I worked on a project investigating the dynamic revision of GIS databases involving uncertainty. **Haskell**.

Toyota UK Ltd, Burnaston, Derbyshire (1993-1995)

Team Member on the production line.

Redifon Ltd, Crawley, West Sussex (1990-1992)

As a Student Engineer my responsibilities included C programming and PCB design, construction and testing.

Keele University, Keele, Staffordshire (1995-2000)

B.Sc. in Mathematics and Philosophy: 1st Class Honours. Started a Ph.D. in Computer Science.

Bath University, Bath, Avon (1991-1992)

B.Eng. in Electronic and Communications Engineering. Not completed.

BHASVIC, Hove, East Sussex (1988-1990)

A-Levels: Pure Mathematics (B); Electronics (C); Physics (D)

Professional Qualifications

Sun Certified Java Programmer for the Java 2 Platform 1.4 (96%)

Personal

I am married with three children. I have a full clean driving licence. My hobbies include cycling, rock climbing and outdoor activities in general. I have trained in various Martial Arts in the past. I also enjoy board and computer games and tinkering with computers.

Skills Summary

Java: Spring, Spring Boot, Spring Integration, Spring MVC, J2EE, JEE5, Hibernate / JPA, Servlets / JSP, Web Services (JEE 5, Apache CXF, REST, SOAP), Maven, Gradle, Tomcat, Glassfish, JBoss, Websphere.

Ruby: Grape REST framework, Rack, Thin, Resque.

Scala: ScalaTest, Scala Play

Web: REST, RAML, (X)HTML, CSS, Javascript, Struts, Struts2, JSF/IceFaces, AJAX, jQuery, Apache, Nginx.

XML: SAX/DOM, StAX Streaming API, XPath, DOM4J, XML Schema, XSLT, JAXB.

Databases: Oracle, Riak, SQLite, DB2, CouchDB, Progress.

Enterprise Service Bus: JavaCAPS, OpenESB

DevOps: Puppet, Hiera, Docker, Vagrant.

Testing / CI: JUnit, RSpec, Mocking frameworks, Jenkins.

Other: Python, Django, Scala, Clojure, Groovy, C, Haskell, Perl, git, subversion, CVS. Profiling and analysis techniques using JProfiler, jconsole, Wily, heap analysis, thread analysis and JMX.