SHAJID ISSA
BSc (Hons 2.1) Computer Science

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Sex	Male	**Birth**	26 July 1977
Nationality	British	**Place of Birth**	Leicester, UK
Telephone	07703 332511	**Martial Status**	Married
Availability	June 17	**Driving Licence**	Full, Clean

Linkedin Profile : http://www.linkedin.com/in/sajissa

A flexible and committed software developer, eager to learn new skills and face new challenges. I am passionate about what I do and the solutions I architect. I am an enthusiastic team player and strive to contribute best practice, high quality approaches wherever possible. I have a strong focus on web oriented development that is supported by a breadth of experience including B2B, e-commerce, GUI development, systems integration, Web Services and hi-tech research. I thrive on real deadlines and commercial pressures, and enjoy getting involved at any part of the lifecycle of a solution.

Skills

O/S	Windows, Red Hat Linux, Sun Solaris, UNIX, AIX, Ubuntu, SUSE
Languages	Java, Scala, C++, PHP, NET, Visual Basic, PL/SQL, Unix Bash Shell Script, Groovy, Ruby on Rails
Technologies	JSP, Servlets, JSF, JSTL, EJB, RMI, XML, XSL, CSS, Swing, Multithreading, Jasper Reports, Oracle Forms, Oracle Reports, JDBC, ASP.NET
Build Tools	Ant, Maven, Gradle, Ivy
JavaScript	Jquery, Scriptaculous, DOJO, GWT, AngularJS, Node.js, NPM
ETL	Talend, Oracle Warehouse Builder, FME
Software IDE	Eclipse, Netbeans, Sun Creator 2, JDeveloper, Adobe Flex, OpenESB, Soap UI, IntelliJ
GIS	Google Maps, RMX, Mapinfo, MapXtreme, ESRI, iSmart
Utilities	Toad, LiveLink, pgAdmin, MySQL workbench, Putty, Cygwin, MobaXterm
Methods	MVC, Prototyping, Agile, TDD, BDD, Pair Programming, Scrum, Waterfall
Frameworks	Struts, Struts 2, Spring 2/3/4
ORM	Hibernate 3/4, JPA
Database	MS Access, Oracle DB 8 9i 10g, Oracle Spatial, MySQL, Microsoft SQL, DB2, Postgres, MongoDB, Cassandra
App Servers	Tomcat, Oracle OC4J, Weblogic, JBoss 4-7, WildFly
Web Services	SOAP, JAX-RPC, Restful Jersey, Axis, Axis 2
Testing	Log4j, JUnit, HttpUnit, LoadRunner, Selenium
Source Control	Subversion, Tortoise CVS, Visual source safe, BitBucket, Git
Cont. Integration	CruiseControl, Hudson, Jenkins
Config Man.	Puppet, Docker, Ansible
Oracle	e-business suite, HR, Payroll, CRM, Business Objects
Cloud	Microsoft Azure, Amazon Cloud, VMWare, vCloud Director

Work Experience

April 2017 – current	Java Integration Tech Lead – Consultant – **Leicester Air Limited, Glenfield Hospital, Leicester**

- Mapping and exporting NHS Respiratory data to third party Java based systems. Utilising Restful web services.
- Modifying asp.net and node.js websites.

July 2016 – April 2017	Java Tech Lead / Dev Ops Engineer – Consultant – **NHS, UHL, Cardiovascular BRU, Glenfield Hospital, Leicester**

- This role utilised the following skills; Java 1.7/1.8, Junit, Selenium, JSTL, Spring, Hibernate, Maven, Boot Strap, JQuery, Drupal 7/8, PHP, Docker, Bash Scripting, MySQL, MS SQL Server, VM Ware, Apache Tomcat, JBoss.
- Cardiovascular apps ecosystem was highly complex and posed difficulties with upgrades and issues for developers. H2SS was tasked with streamlining the entire apps ecosystem.
- Upgraded entire architecture setup of 20 VMs to latest version of Ubuntu and subsequent setup of new Docker configurations.

- Installed and configured Ubuntu 16.0.4 VMs on hospitals VMWare cloud environment using vCloud director.
- Dockerised the following open source applications; Nginx, i2b2, CiviCRM, Open Specimen, Redcap, MySQL, Briccs Labels and Appointment System.
- i2b2 upgrade required cleansing and exporting data from Rhapsody EPR System. circa 7 million + records. New modules to i2b2 were written in server side; Java, EJB 3.0, client side; HTML, JQuery, app server JBoss Widfly 10.
- CiviCRM upgrade required detailed analysis of current system and required development of key Drupal 7 modules using PHP 5.
- Utilised private Git and Docker repos. Explored Ansible and Vagrant solutions.
- Configured SSL on numerous Apache and Nginx servers on the Hospital N3 network.
- Working practices followed Agile principles.

Jan 2017 – April 2017	Dev Ops Engineer – Consultant – <u>**NHS, Royal Derby Hospitals, Derby**</u>

- Configured and installed Ubuntu VMs on Derby Hospitals Cloud infrastructure.
- Configured and installed Docker container of Redcap 7.2 and MySQL v5.6.
- Configured daily MySQL backups using bash scripts.
- Setup questionnaire for longitudinal POSNOC Breast Cancer Trial.

Mar 2016 – April 2017	Java Support – Consultant – <u>**Genomics England, Royal Infirmary Hospital UHL, Leicester**</u>

- Support contract for the 100k Genomes CiviCRM patient management system.
- This role utilised the following skills; Java 1.7/1.8, Rest/Soap Web Services, Drupal 7/8, PHP, Bash Scripting, MySQL, VM Ware.
- Maintained and upgraded Live and Test Ubuntu VMs hosting CiviCRM.
- Developed Java modules to connect to Hospital Spine network / HL7 to update patient statuses and demographics weekly.

Mar 2016 – Aug 2016	Java Developer – Consultant – <u>**Department of Economics, University of Leicester, Leicester**</u>

- Developed Right to Rent online research tool to gather information regarding the discrimination of candidates in the rental market.
- This role utilised the following skills; Java 1.7, Spring 3.6, Spring Security, Spring Cron, Hibernate 3, JSTL, HTML, JQuery Rightmove Api, Context.io, Jaunt, Twilio SDK, Scribe, Apache POI, Gmail Api, Bash Scripting, MySQL 5.3, Microsoft Azure.
- The tool traversed the Rightmove website, scraping contents of properties for the previous 24 hours. It then sent daily 500+ enquires to estate agents. Integrations were also developed with Twilio voice communications service.
- Hosting environment was Microsoft Azure using Bitnami Apache Tomcat container.

Mar 2016 – July 2016	Java Integration Tech Lead – Consultant – <u>**University College London Hospitals, London**</u>

- As part of the 100k Genomics program, UCLH required recommendations, processes and tools for a mappings exercise to extract Rare and Cancer data using the GEL defined data specification.
- This role utilised the following skills; Java 1.7, Spring 3.6, Spring Security, Hibernate 3, JSTL, HTML, JQuery, Apache POI, Bash Scripting, MySQL 5.3, Microsoft Azure.
- Analysis of existing systems; Aria, CareCast, CoPath, Genie, InfoFlex, POCT, WinPath.
- Data source systems consisted of Microsoft SQL Server and Oracle.
- Developed a data mapping tool using Java, JSTL, Spring, Spring Security, Hibernate, MySQL, HTML, JQuery, Javascript.
- Hosting environment was Microsoft Azure using Bitnami Apache Tomcat container.

July 2015 – July 2016	Java Integration Tech Lead – Consultant – BRISSkit – Phase III, <u>**Glenfield Hospital , NHS, University of Leicester, University Hospitals Leicester**</u>

- The final phase of BRISSkit was to document all software, processes, procedures and release the code as open source.
- Led a team of 2 developers using agile and scrum methodologies.
- Documented BRISSkit tailored versions of i2b2, Redcap, CiviCRM, OpenSpecimen, Onyx, Puppet on BRISSkit's wiki page.
- Worked closely with project stake holders, NHS, University of Leicester and JISC.
- Tailored CiviCRM to work in the medical arena, created custom modules using PHP.
- Tailored OpenSpecimen to work in the medical arena, created custom enhancements using Java, Spring and Hibernate.
- Streamlined bash scripts for all software installs.
- Developed a provisioning portal using Java based technologies to create 'on the fly' instances of VMs loaded with apps on Microsoft Azure and Amazon Cloud using their respective APIs.
- Presented software stack at conferences and seminars.

Nov 2015 – Mar 2016	Java Tech Lead – Consultant – <u>**Genomics England, Royal Infirmary Hospital**</u>

UHL, Leicester

- Developed customised CiviCRM solution for Genomics England, worked closely with NHS staff to define specification.
- Created Drupal modules and tailored PHP forms.
- Created a number of Restful APIs using Java, Oauth2, Spring and Hibernate to connect to hospitals EPR and Patient master index.
- Exported and cleansed 200k+ patients and 10m+ patient records.
- Trained staff how to use CiviCRM.

May 2015 – June 2015   Java Integration Tech Lead – Consultant – Cancer UK, University Hospitals Leicester

- Installed and tailored OpenSpecimen for Cancer UK, Royal Infirmary, Leicester.
- Import patients and specimen data into OpenSpecimen using Java data flows.
- Trained staff how to use OpenSpecimen.

**May 2014 – April 2015   Java Integration Tech Lead – Consultant – BRISSkit – Phase II, Glenfield Hospital ,
NHS, University of Leicester, University Hospitals Leicester**

- Upgraded installation routines for the BRISSkit stack of software.
- Setup Nexus Maven repository, worked together with 3rd party software licence companies.
- Led designing Puppet infrastructure.
- Integrated web services with NHS spine and EPR systems. Utilised a number of restful API's and HL7 feeds.
- Led a team of 2 developers using agile and scrum methodologies. Took part in Sprint planning, Sprint reviews and Spring meetings.
- Performed code reviews, released code to git and svn.

**Sept 2013 – April 2014   Java Integration Tech Lead – Consultant – NHS, UHL, Respiratory BRU, Glenfield Hospital,
Leicester**

- Configured and installed i2b2, OpenSpecimen, Redcap and CiviCRM on Hospitals VMWare environment.
- Developed and configured data flows in i2b2 using Java. Circa 25M+ records. Source systems were legacy hospital systems.
- Developed restful web services using Jersey for the Redcap Exceed Study.

**Oct 2011 – Oct 2013   Java Integration Tech Lead – Consultant – BRISSkit – Phase I, Glenfield Hospital ,
NHS, University of Leicester, University Hospitals Leicester**

- Java Integration Tech Lead for the BRISSkit team – (Biomedical Research Infrastructure Software Service kit) (http://www.brisskit.le.ac.uk/) funded by HEFCE and JISC.
- Objective of BRISSkit was to configure and integrate an open source stack of software applications **i2b2** (research data platform), **OpenSpecimen** (specimen management), **CiviCRM** (study and recruitment management), **RedCap** (patient questionnaire tool) and to resell packages to other Biomedical Research Units in the UK.
- Developed one-click bash scripts to provision each of the applications on Leicester Universities LAMP servers, UHL N3 VMWare vCloud servers and cloud providers Eduserve, Amazon Web Services and Microsft Azure Cloud.
- Each of the applications in the open source software stack consisted of various technologies, these being Java core classes, JSTL, Struts, Spring, Hibernate, Jersey REST, OpenESB BPEL SOAP, PHP, HTML 5, JQuery, Bootstrap, AngularJS. Application servers Jboss 5 and 7, Apache, Apache Tomcat. Databases Microsoft SQL Server, MYSQL 5+, Postgres 9.3
- Led a team of 4 technical developers. Worked closely with Medical colleagues to define requirements and specifications.
- Enhancements and new developments utilised agile techniques and 2 weekly sprints. Worked in a pair programing environment. Agile tools used Atlassian JIRA, Atlassian BitBucket and the Slack platform for team communication.
- Utilised Test Driver Development and used the Junit to test Java code. Prepared detailed test plans and maintenance procedures. Defined test scripts. Identified test cases, evaluation criteria, designed test data and carried out test plans. Design was based using UML and agile principles.
- Explored 'Big Data' scenarios using Microsoft Azure Hadoop services and Mongo DB
- Presented at i2b2 AUG 2012 at Harvard University, Massachusetts, USA, Met partners in New York, USA. Presented at i2b2 European AUG 2014 in Nuremburg, Germany. Presented at OpenSpecimen AUG 2014 in Missouri, USA.
- Attended NHS Hacks and led BRISSkit Hackathons.

Sept 2009 – Oct 2011   Java/GIS/Oracle Consultant – Leicestershire County Council

- Developed numerous Web 2.0 rich Internet applications using Java, JSP, JSF, Hibernate, Struts, Spring, Ajax, Oracle DB, MySQL DB and Oracle Spatial. Created Web 2.0 rich Internet apps which extensively relied on Ajax principles, Javascript, Jquery, PL/SQL, DHTML, XML, XSLT and DOM.

- Development life cycle was structured and attention was put into designing the applications appropriately. Techniques and methodologies utilised included drawing use case diagrams and transition diagrams. Applications were built using MVC model methodology, code was designed to fit with 'java design patterns' and 'J2EE blueprints'.
- Documented all aspects of project life cycle, from requirements to final deployment. Ensured quality control. Worked in 3 different teams with many colleagues, delegated work to other colleagues to ensure deadlines were met.

May 2009 – Aug 2009   Java/GIS Consultant – Dotted Eyes

- Redeveloping modules on flagship product Response MX.
- Developing applications using Eclipse, JSP, Java 1.5, Javascript, Jquery, Struts 2, Hibernate, JPA, Ant, Maven
- Utilising agile and prototyping / iterative methodologies. Exposed to Adobe Flex 3 applications.
- Re-performing analysis and incorporating best design and coding practices, documenting processes and class interactions.

April 2005 – April 2009   Java/GIS/Oracle e-Business Consultant – Leicestershire County Council

- Developed web based Graphical Information Systems (GIS) Mapping applications. Interfaced with latest mapping products: MapInfo; Java MapXtreme 4.8.1; Google Maps. Main Java development tools utilised were various flavours of Eclipse, Sun Java Studio Creator 1 and 2, JDeveloper OA Extensions and NetBeans.
- Solid background and understanding in OO analysis & design, UML; created use cases scenarios, ER and class diagrams.
- Introduced and advocated Agile methods to team members and developed projects using agile principles.
- Created automated testing frameworks using Selenium. Established test driven development using HttpUnit, JUnit and Log4j.
- Developed BPEL modules for CRM module of E-Business suite using Eclipse & JDeveloper. Developed Web Services to pass data to back office systems.
- Developed CRM / GIS webapp which allows call centre users to search for addresses and pinpoints all county street lights and displays all county footpaths. Technologies utilised Java, Google Maps, Google API, Ajax, Javascript, DOM, XML, XSLT, CSS and Oracle Spatial, PL/SQL procedures.

Jan 2005 – April 2005   Java Consultant – AAH Pharmaceuticals

- Involved in developing modules for AAH's 3 main web apps; Supplier Point, AAH Point and Medecator.
- Deployment architecture consists of Oracle's OC4J J2EE container, Apache Jakarta Tomcat 4.1.31 Servlet Container, Oracle 9i database and Ingres R3 database.
- Involved in UAT (User Acceptance Testing). Involved in fixing bugs ranging from low to critical.

Aug 2002 – Dec 2004   Java / Oracle Consultant – Leicestershire County Council

- Developed modules for a web based *Highways Maintenance*, *Bridges & Structures* and *Waste Management* System. Using Oracle 10g, PL/SQL, SQL, DML, Stored Procedures.
- Developed Servlet 2.3, JSP 2.0 Applications using Struts, JSTL (JavaServer Standard Tag Library), Custom Tags and Ant compilation/deployment. Other technologies utilised HTML, DHTML, XSL, JavaScript.
- Developed web services using SOAP / XML-RPC Protocol and Axis.

Sept 2001 – Jul 2002   Java Consultant – Habtech

- Developed a web based *Practice Management* system, including time recording, resource and project billing, client invoicing and management reporting. Developed modules to extract data onto PDAs and mobiles phones.

Feb 2001 – August 2001   Java Consultant - Bynx Europe

- Developed large scale Internet based systems using J2EE technologies for commercial blue chip organisations including *General Electric* and *BT Fleet*. Developed an on-line car quotation system for industry leading fleet car leasing organisations.

Oct 1999 – Dec 2000   Software Engineer - DERA, MOD, Malvern

- Employed by the JAVA centre within the Software Engineering Centre (SEC).
- Developed applications using Sun Microsystems JAVA 2 SDK v1.2.2 and v1.3 on Windows NT.

Education & Qualifications

1996-1999   Leicester University, **BSc Hons. Computer Science   (Obtained 2:1)**

References available on Request.