

# **FAROUK ALHASSAN**

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## **SOFTWARE ENGINEER**

*A reliable well-motivated, hard working, considerate person, with a wealth of practical skills and experience in dealing with various software development tasks. Most importantly, knows the insignificance of planning, organizing, prioritizing tasks ahead for effective time management. Over the years I have developed good interpersonal and communications skills. A keen listener, flexible, patient, jovial, eager to learn and acquire new skills. Can work well under pressure and meet deadlines. In addition, have the initiative to work individually as well as part of a team.*

## **SUMMARY OF QUALIFICATIONS**

### **Web Services Architectures or Service Oriented Architectures**

- Immense experience in Systems Integration and adaptation into third party systems using standard and proprietary systems communication protocols such as Simple Object Access Protocol (SOAP), Enterprise Service Bus (ESB), JavaScript Object Notation (JSON) and Java Native Interface/ API (JNI/JNA) for interfacing into Windows Dynamic Libraries.
- Designing and Implementing Service Oriented Architectures (SOA) using Web service Architectures that provide multiple hooks for client interaction including SOAP, Remote Method Invocation (RMI) and REST.
- Immense experience utilizing Java tools in business, Web, and client-server environments including Java Platform, Enterprise Edition (Java EE), Enterprise Java Bean (EJB) , JavaServerPages (JSP) and related open source frameworks to deliver commercial products on time and within budget.
- Fluid understanding of multiple programming languages, including C#, C, C++, JavaScript, HTML, and XML.
- Excellent communications skills. Adept at building strong working relationships with coworkers and management. Highly focused individual driven by timescales and deadlines.
- Configuring and managing development and production Application servers including Tomcat, JBoss and Websphere.
- Proven track record on delivery in time-constrained environments with the highest compliance to government standards and systems with high fault-tolerance.
- Very strong numeric, analysis and problem solving skills with background in engineering.

## **Key Skills**

**Languages:** Java, C#, C/C++, PHP, JavaScript, XHTML, XML, CSS, XSTL, MATLAB, Action Script, Flash, Swish, SQL, HQL

**Platforms:** Sun Java Virtual Machine, Microsoft .NET.

**Operating Systems:** Red Hat Enterprise Linux, Centos 5.2, Windows XP, Windows Vista

**Frameworks:** Hibernate, Struts, Groovy, Stripes, JBoss Seam, AribaWeb, Ajax, Dojo, JAX-WS, JAXB 2.0, AXIS 2, JNI, Log4j and SAAJ.

**Applications:** Apache OFBiz, Liferay, Apache Web Server, JBoss Application Server, Apache Tomcat.

### **Development**

**And Build System:** NetBeans IDE, Apache Ant and Smart CVS.

**Databases:** Microsoft SQL 2000/2005, MySQL, JavaDB

**Design:** Adobe Dreamweaver, Fireworks, Photoshop, Illustrator, Corel Draw 14

## ***Achievements***

### *Delivering Enterprise Systems that does what it says on the tin*

- Redesigned and implemented the LalPac Address Hub product to integrate continuous build processes, Code quality metrics, Unit testing and proper version control and release processes. The re implementation allowed the product too pass all Addressing standards including the British Standard BS7666 address format for which it had been incompliant for its 5 years in existence. The redesign was a huge success and LalPac can now confidently sell the product to its customers without any hesitation.
- Developed a web flow system to handle online licensing application for local governments. The process flow system handled dynamic process types and was easily scalable to add new process types and application types on the fly without redevelopment. The project which had been promised long before I appeared in the company was a success partly because of my participation as a lead developer.
- Implemented a PDA version of the LalPac Enterprise product to allow local authorities to do Mobile License Enforcement and License Validation.
- Developed Integration and Adapters to suite various Data processing systems of our Clients including e-payment adapters, GIS Adapters and Consuming third party Web Services.
- Developed a standalone VoIP application using Visual C++ 6, as my final project at the university. A project that for which I was awarded an A Grade in my final result and now installed and used locally for inter-office communication at KNUST School of Engineering.

## ***Non Java Capabilities***

### *I am a Software Developer, not tied to a specific technology but the most suitable ones*

- From my experience in developing VoIP Applications back at the University to developing personal projects using the JBoss Mobicents Communication Platform, I am an active developer and enthusiast of modern day communication technologies including VoIP, Multimedia Messaging and Internet Technologies.
- Also actively involved with Domain Modeling using UML 2.0.
- Deep understanding Embedded System Development and Applications.
- Design and Simulate Mathematical Models for Communication and Signal Processing using C, /C++ and MATLAB Simulink.
- Designing of highly user friendly web interfaces using graphics editing tools like CorelDraw and Adobe Photoshop.

## ***EXPERIENCE***

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\* LalPac Ltd

2006 - Present

*Consults in areas of Architectural Analysis, software design and development with emphasis on business processes, user experience, performance optimization, software modularization and standards compliance. Develop software unit and integration tests and business prototypes and proof of concepts for new business projects and customer requirements.*

## Project Summary

- For local authorities and councils that use mobile license enforcements, developed screens of the LalPac Enterprise software for devices with limited screens size for Portable Digital Assistants (PDAs) and other such related devices that allowed searching of backend database to validate licenses while away from the back office
- Successfully upgraded the existing LalPac Enterprise Software from older versions of JBoss, Tomcat and Java 1.4 to Tomcat 6.0, JBoss 4.2 and Java 1.5.
- Developed a highly dynamic Application Wizard that allows general Public to make Licensing applications over the internet to their Local Authorities. The only such system currently approved under the new EU regulations for online application processing.
- Implemented a fuzzy search system that allows users to search public registers and local authority databases for the Status of their Applications, make representations on planned operations and to validate licences using Dynamic SQL, Hibernate and JDBC.
- Summarize type and edit letters of recommendation for Internal Medicine residents.
- Apply knowledge of medical terminology when typing and bowdlerizing physician documentation.
- Developed new Input Data Validation component for validating all kinds of submitted data based on Business Logic and known security threats such as SQL Injection and XSS.
- Developing reusable and generic reports using Jasper Report, IReports and Itext.
- Write Documentation and User guide documents for new releases and features.

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## Academic and Other Personal Project

2002-Present

*It's all about enthusiasm, passion and love for what you do*

- Design and Implement DSP based Digital Voice terminal for Packet Switched Network.  
Details: Complete, Supervised. **Part of Undergraduate project**
  - Design of a Graphical User Interface for the ITU-T H.323 VoIP Implementation using MS Visual C++ 6 with MS Visual Studio  
Details: Complete, Supervised. **Part of Undergraduate project**
  - Simulation of Communication Channels using MATLAB Simulink and the Texas Instruments (TMS320C6416 DSP Starter Kit (DSK)) for Low, High and Band Pass Filters.
  - Develop and maintain website for my friend. <http://www.eventdj.co.uk>.
  - Develop and maintain my personal website. . <http://www.faroukalhassan.com>
  - Developed a website <http://www.bespokecode.co.uk>
  - Maintains the my development blog <http://www.cameotutorials.blogspot.com>
  - Contribute to the Apache OFBiz framework and a regular contributor to AribaWeb RIA framework
  - Develop and maintain my development web server <http://www.dipwatch.com> which is use to host current projects for demonstration and Code repositories.
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## ***Education***

Bsc Electrical/Electronic Engineering 2002-2006  
*Kwame Nkrumah University of Science and Technology, Ghana*  
Result: 2.1 (Second Class Upper)

Senior Secondary School Certificate Examination *Dec, 2000*  
*Prempeh College, Kumasi, Ghana*  
Result: Aggregrade 08 from WAEC

## ***Professional Associations***

Institute of Electrical and Electronic Engineers, Computer Society (Associate Member)

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*\*References Available Upon Request*