

**Shahzada Hatim Mushtaq**

Pakistani/Male/25/Computer System Engineer

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**Purpose.**

Looking for an opportunity to extend my academic qualification to the level of Masters in the field of Software engineering/Computer Science from a leading international program.

**Skill Set**

<i>Skill</i>	<i>Years of use</i>	<i>Level</i>	
Linux Administration	7	Advanced	(RedHat, Debian, Gentoo)
ANSI C	7	Advanced	(GNU's gcc, Kdevelop)
JAVA (EE)	4	Advanced	(MyEclipse, Spring-MVC)
JAVA (SE)	5	Intermediate	(Netbeans)
Ruby	2	Intermediate	(Ruby on Rails)

I have had **need/project** based experience with the following technologies.

<b>Database Servers</b>	MySQL, Oracle 10g, Postgres.
<b>Java Technologies</b>	DWR, Struts, Spring-MVC, Hibernate, Log4j, Commons Validation.
<b>Web Dev</b>	AJAX, Javascript, CSS, XHTML, Dream-weaver, Amaya, NVU.
<b>Productivity</b>	Open-Office, MS-Office, Neo-Office, LaTeX.
<b>IDE/Debugging</b>	Make, Ant, Maven, Gdb, Kdbg, Kdevelop, Eclipse, Netbeans, 4D.
<b>Profilers</b>	Jprofiler, Valgrind.
<b>Testing</b>	Junit, Spring-Mocks, Struts-Mocks
<b>Networking/Telecom</b>	AAA (Free Radius), SNMP (Net-SNMP, OpenNMS), Wire-Shark.
<b>Scripting</b>	Bash, PHP.
<b>Multimedia</b>	Adobe Photoshop, GIMP, Macromedia Flash, InkScape
<b>Webservers</b>	Lighttpd, Apache, GlassFish, Tomcat
<b>Misc</b>	OpenSSH, LDAP, bind9
<b>Operating Systems</b>	FreeBSD, Multiple flavors of Linux (rpm, deb, tgz based, 2.2- 2.6 kernel), Windows NT, 2000, XP, 2003, Open Solaris 2007, Mac OSX

**Experience**

Open source Software Developer, Zeropoint.it, Oct 2007 - Present

- Currently working on an ERP product which is based on ISA-95 standard, following the best practices of open source software engineering and development model based on Model-View-Controller pattern. It is being developed from scratch.
- The product is essentially a web based application in fashion of Web 2.0 applications on the Java EE platform. It would help scheduling and management of manufacturing activities in an industry following the ISA-95 standard.
- I have so far been involved in technology evaluation, requirement analysis, GUI mock ups, test criteria development, writing test cases and code evaluation.
- Currently I am working with team of developers implementation/coding of the product using Spring-MVC (Java EE). This project will continue for a foreseeable future period.

Contact : Jelle Mattelaer (Business Development Manager) [jelle@inGen.be](mailto:jelle@inGen.be) Tel : +92-345 856 22 25

Software Engineer, iPhonica LLC, Mar 2007 - Sep 2007

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- Deployment and customization of OpenNMS (an open source enterprise grade network management suite) on a major telecommunication service provider's internal network. NetSNMP was used as snmp agent, customization was done using OpenNMS internal classes and editing jsp of OpenNMS webapp. Formed good report with OpenNMS dev community over irc. (Wateen Telecom)
- Development of communication middle ware for integration of home brewed billing with major South Korean VOIP hardware vendor's equipment. (Xener XIC)
- Development of a middle ware communication library wrapper. (using XML-RPC-C)
- Customization of Free Radius to utilize oracle stored procedures for an enterprise grade prepaid/postpaid billing application.
- Provided trouble shooting to other teams for Linux/Unix issues/scripts.
- Provided mentor ship to junior staff new to Linux/Unix.
- Represented and manned my company's stall for technical coverage in JITEX 07 (a major tech trade show in Dubai).

Contact: Asad Karim (ex CEO/present Board Member) [asadkarim@iphonica.com](mailto:asadkarim@iphonica.com) Tel : +92-51-8250300

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Software Developer , Jin Technologies, Nov 2006 - Feb 2007 (company size 15-20)

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- Worked on customization of a Project management application (JobOrder.com) developed by client software companies in USA. The technology used was a proprietary RAD tool/RDBMS called 4th Dimension, with large deployment-base on Apple Mac OS.

Contact: Mansoor Saleem [mansoor@jintech.com](mailto:mansoor@jintech.com) Tel : +92-51-2825924

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#### Teaching/Consultancy Experience

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Muhammad Ali Jinnah University (Sep 2007 - Present)

##### Linux Migration Training

- Training MAJU employees linux administration skills from very basics to advanced level system admin skills so as to prepare them to migrate IT infrastructure of Islamabad campus from Windows 2003 to CentOS 5 Linux.
- Supervising and assisting the staff where ever necessary in the actual migration process.

Contact: Dr. Muhammad A Qadir (Professor & Dean Faculty of Engineering Sciences, MAJinnah University) [deanfes@jinnah.edu.pk](mailto:deanfes@jinnah.edu.pk) Tel : +92-51-2879752

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Internship , GIK Institute, June 2005 - Aug 2005 (company size 1-5)

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Computer Networking Internship, Faculty of Computer Science

- Studied the feasibility of deploying Optical-Fiber for LAN on GIKI campus.
- Worked with a team of interns to document existing GIKI LAN wiring.

Contact : Dr. Syed Asif Gillani (Dean Faculty of Computer Science, GIK Institute) [asif@giki.edu.pk](mailto:asif@giki.edu.pk) Tel: +92-300877155

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Senior Design Project, Sept 2005-May 2006

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Design and implementation of transport layers for the Mandala framework. Mandala is an open source distributed framework for the JAVA programming language. The framework was the PhD work of my advisor Dr. Pierre Vignereas at University of Bordeaux, France. I was part of a three member team involved in the customization of the framework so it could utilize UDP, SOAP and JTOE (an experimental protocol). This project not only tied some loose ends in the Mandala framework but also provided valuable experience to the team in the fields of distributed and concurrent programming.  
<http://mandala.sourceforge.net>

Contact: Dr. Pierre Vignereas (Ex Associate Professor GIK Institute) [pierre@vigneras.name](mailto:pierre@vigneras.name)

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#### Semester Projects

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Bayesian logic email spam filter using C++.	(Artificial intelligence)
Computer controlled variable speed fan C/Assembly.	(Microprocessor interfacing)
Parallel port controller/basic printer driver C/Assembly.	(Digital logic design)
Automation of GIKI mess billing system - PHP and MYSQL.	(Databases)
Implementation of an FTP client using C/Linux.	(Computer networking)
Mock up Software Design Cycle for GIKI Bank Automation.	(Software engineering)
Clash less time table generator using C#.	(Object oriented programming)
Flag Match using Java RMI.	(Distributed systems)
Mouse control with digital finger tracking. (Matlab)	(Digital image processing)

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## Other Projects

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Urdu-BB , An Urdu Input method system for browsers. It aims to produce an enterprise ready solution which would be easy to use and deploy for future Urdu/Arabic script based websites, by freeing both programmers and users from installing any thing special.

<http://urdu-bb.sourceforge.net>

Jowamp, A java implementation of one way active measurement protocol. This project proposal was selected in Google Summer of code 2007. Unfortunately due to timing constrains this could not be accomplished as SOC project. I am currently working on this on my own

<http://code.hatimonline.com/jowamp>

## Education

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### Undergraduate

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Ghulam Ishaq Khan Institute of Eng. Sciences and Tech.

BS in Computer System Engineering.

CGPA: 2.3, (completed on August 25 2006).

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### High School

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PAF Public School Sargodha.

HSSC : 890/1100

Matriculation : 734/850

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### Interests

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#### **Computing Interests:**

Software Engineering, Design Patterns, Data Structures and Algorithms,  
Enterprise Computing, Open Source, Internet Programming/Web Services

#### **General Interests:**

Music (Piano), Science Fiction Movies / TV Series,Travel,

E-life (Internet Surfing, Blogging, Pod cast Listener ,Forums/Mailing Lists contributor)