Muzammil Shahbaz

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Personal Profile

Address: CTM, 15 Chemin de la Carronnerie, 38246 Meylan, France
Phone: +33673540046
Date of Birth: 31st July 1981
Language Skills: English (IELTS 7.0), French, Urdu/Hindi, Punjabi

Professional Experience

2005 – 2008   **France Telecom R&D / Orange Labs, France**
R&D Engineer – Software Engineering Department
Responsibilities: -Design and Development of Component Based Systems
-Devising and Implementing the techniques for Analysis, Testing and Integration of (third-party) Software Components, with the applications on Intelligent Systems and Mobile Phone Services.

Mar-Sep 2005   **Verimag, France**
Internee   *Project Collaborator:* **STMicroelectronics, France**
Responsibilities: Design & Development of a tool to verify SystemC modules in SMV (Symbolic Model Verifier)

2002 – 2004   **KAPS Computing PVT LTD, Pakistan**
Software Engineer – Hewlett-Packard Projects Expert
Responsibilities: - Design, Development and Maintenance of Enterprise Applications regarding Information Retrieval, B2B/B2C and Web Services
- Participation in the testing process through test reviews and analysis

Academic Profile

2005 – 2008   **PhD in Software Engineering**
Grenoble Institute of Technology, France
Thesis: Reverse Engineering Black Box Software Components
     to support their Integration Testing and Analysis
Nominated for "Best Thesis Award 2008"
Industrial Link: **France Telecom R&D**

2004 – 2005   **Masters in Computer Sciences**
University of Joseph Fourier, France - With Distinction
Thesis: Verification of System-on-Chip using Symbolic Model Verifier

1999 – 2003   **Bachelors in Computer Sciences (Honors)**
University of Central Punjab, Pakistan
With a Letter of Commendation - CGPA: 3.67 / 4.00
Final Project: Face Recognition using Neural Networks and Eigen Faces

Proficiencies

Development Skills:

Languages: Java (SE, EE, ME), C/C++ (STL), PL/SQL
Web: JSP, Servlets, HTML, XML (Xerces-C++)
Servers: JRUN 3.1, ServletExec 4.1, Orion 1.4
Frameworks: Struts, Felix, OSGI-UPnP, Apache POI
Database: Oracle 8i, LDAP Directory Server, CVS
Verification Tools: SMV, Lustre, IF

Other Interests:

- Model Driven Engineering, Reverse Engineering, Software Validation & Verification, Intelligent System Design and Development

R&D Projects (selected)

Smart Home System **(2007 – 2008)**
Project of Orange Labs, France
Description: Designing and Imlementing a service-oriented-architecture of home appliances that can communicate with company's phone/internet services. The future product will be integrated with the ADSL solution, called Orange LiveBox.
Role: Participation in modeling the architecture of home entertainment devices and related mobile phone services. Conducting experiments with OSGI-UPNP Bundle to connect UPNP enabled devices with OSGI based services.
Technologies: Java ME, Java SE, Apache Felix, CyberLink OSGI Bundle

Mobile Phone Applications (MIDLets) Development and Testing **(2006 - 2008)**
Project of Orange Labs, France
Description: Integration of third-party MIDlets with the indigenously made service components of Orange Labs. Detecting incompatibilities and performing conformance testing of the requirements.
Role: Testing the behaviors of built-in Media Players in mobile phones: Nokia N93, Nokia 6131 and Sony Ericsson W300i. Feature Interaction Detection in phone functions and company services.
Technologies: Java ME, Java Bluetooth and Serial Communication tech.

Qualification Information System **(2002 – 2004)**
Project for Hewlett-Packard, USA
Description: A web-based data analysis and collaboration application that facilitates the data management for electronic components.
Role: Development and Maintenance of various modules related to data storage, information retrieval, reporting and user/web security.
Technologies: Java EE 1.4, JNDI 1.2, JSP 1.1, POI 1.0, JRUN 3.1, Oracle 8i, LDAP 4.11

Knowledge Management System **(2003 – 2004)**
Project for Hewlett-Packard, USA
Description: A document management system that supports versioning, editing, deleting, re-activating and purging of documents.
Role: Design and Development of various modules related to document management and control.
Technologies: Java EE 1.4, Struts 1.0, JSP 1.1, JRUN 3.1, Oracle 8i, Jakarta RE

Publications
Details can be seen on http://membres-liglab.imag.fr/muzammil/
- Journals (2), International Conferences with peer-reviews (8)

Achievements

- French Industrial scholarship (CIFRE) from France Telecom R&D for PhD studies (05 - 08)
- Selected by Higher Education Commission Pakistan for post-graduate studies in France (04)
- "Chairman Scholarship" during under-graduate studies (for 3 semesters)
- National Talent Scholarship from Board of Intermediate Education, Pakistan (99)

Hobbies

- Reading/Writing (Biographies, Current Affairs, Politics, History, Technology, Short Stories)
- Traveling
- Playing Badminton and Trump

References

- Alexandre Lefebvre
  France Telecom / Orange Labs, France
  alexandre.lefebvre@orange-ftgroup.com

- Roland Groz
  Grenoble Institute of Technology, France
  roland.groz@imag.fr

- Usman Javaid
  Vodafone, United Kingdom
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- Alexandre Petrenko
  CRIM, Canada
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