

Sajid Ibrahim Hashmi

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Summary

- Exposure to working on an FP7 research project (funded by the European Union Commission under the Seventh Framework Programme)
- Experience teaching software engineering and computer science courses at multiple levels
- In depth knowledge of software project development life cycle
- Strong analytical abilities and enthusiasm for problem solving
- Well versed at working in multi-cultural environments

Experience

- **Assistant Professor**, January 2016 - ~; Department of Computer Science, COMSATS Institute of Information Technology, Lahore, Pakistan. A top-ranking university in the country by the QS and the Nature rankings.
 - Do teach *Software Engineering* courses for a dual degree program that runs with Lancaster University, UK. The teaching workload is 9 credit hours a semester
 - Supervise undergraduate Final Year Projects (FYPs). To date the following projects have been successfully completed
 - GlobServ: A Coordination Tool for Globally Distributed Software Development Teams
 - A Patient-Doctor Portal
 - A Mobile Car Parking System
 - A Construction Management System
 - Health Verdict: A Shelter to Take Healthy Decisions
 - Member of FYP committee that deals with monitoring and organizing FYP evaluations
 - Member of Labs Management Committee that is responsible for smooth functioning of computer labs through effective management of resources for the department that has more than 2K registered students
- **Doctoral Researcher**, Lero-the Irish Software Research Centre, Ireland; January 2010 – March 2015
 - Worked on S-CUBE (Software Services and Systems Network), an EU Project, funded by the European Commission under FP7 (Seventh Framework Programme) Project. The main objective of the project was to establish an integrated, multidisciplinary, vibrant research community, enabling Europe to lead the software-services revolution and helping shape the software-service based Internet which is the backbone of our future interactive society. *The project was assessed to be part of the top 5 EU projects having a high socio economic impact*
- **Lecturer**
 - 2014, Fall; Visiting Lecturer, Griffith College, Limerick, Ireland [Taught *Data Communication and Networks*]
 - 2014, Spring; Visiting Lecturer, University of Limerick, Ireland [Taught *Project Management*]
- **Teaching Assistant**
 - 2010-2013; University of Limerick; worked as a TA for several computer science modules at undergraduate as well as graduate diploma levels. In addition to that, helped students with practical sessions for *Information System Design* and *Computing for Engineers* modules.
 - Co-supervised an MS thesis titled *State of the art on data storage failures in the IaaS (Infrastructure as a Service) clouds*
- **Research Intern**, NII (National Institute of Informatics) & University of Tokyo, Japan. April 2012 – June 2012
- **Research Assistant**, Software Process Improvement and Reliability Assurance (SPIRAL) Lab, KAIST, South Korea, 2006-2008
 - Worked on SPIC (Software Process Improvement Centre) Projects, funded by the Institute of Information Technology Advancement, South Korea. Was part of the team that developed a Six Sigma web based Project Management Tool for continuous improvement of software development process. Java technologies and MYSQL were used.
 - 2006, 2007; KAIST, *Graduate Teaching Assistant, School of Engineering* - worked as a TA for software engineering and web development modules. Responsibilities involved evaluate term projects; manage module website and office hours to help students.
- **Software Process/QA Engineer**, SNS Technologies, Pvt. LTD., 2008-2009
 - The company was an IT Solution provider and developed web and desktop based enterprise solutions using .NET technologies. Through it services, the company ensured delivery of high quality software
 - My daily responsibilities involved bug tracking, bug reporting in terms of description and proposed recommendation on a software tool called Mantis Bug Tracker in order for the development team in Australia to fix those
 - Discuss change requests with practitioners in terms of feasibility of the potential functionality enhancements

- Preparation of test documents having test cases, scenarios, pre & post-conditions. Perform testing against the requirements document to ensure that each software release confirmed to customer requirements
- Prepare release notes too in order to highlight the functionality enhancements in a certain software release

Education

- PhD, Software Engineering (withdrawn), attended University of Limerick, 2010-2015. (QCA: 3.33)
- **M.S, Software Engineering**, KAIST, South Korea. (CGPA: 3.42/4.3)
- **B.S, Computer Science**, University of South Asia, Pakistan. (CGPA: 3.35/4.0)

Research Publications

- Bhatti, M.S., Ahmed M.A., Kajiya S.S., Qayyum A., Latif I., Hashmi S.I., “NexKey: A Smart Keyboard for Android”, accepted to the 13th Iberian Conference on Information Systems and Technologies, Caceres, Spain, 2018
- Bhatti M.S., Hussain S.A., Qayyum A., Latif I., Hasnain M., Hashmi S.I. (2017) Sab - íomha: An Automated Image Forgery Detection Technique Using Alpha Channel Steganography. In: Rocha Á., Correia A., Adeli H., Reis L., Costanzo S. (eds) Recent Advances in Information Systems and Technologies. WorldCIST 2017. Advances in Intelligent Systems and Computing, vol 570. Springer, Cham.
- Sajid Ibrahim Hashmi and Ita Richardson: *Global Requirements Engineering on the Cloud*. In the 8th IEEE International Conference on Global Software Engineering (ICGSE 2013), Bari, Italy, August, 2013. **[Presented myself]**
- Josiane Kroll, Sajid Ibrahim Hashmi, Ita Richardson, Jorge Audy: *A Systematic Literature Review of Best Practices and Challenges in Follow-the-Sun Software Development*. Accepted to the PARIS Workshop: Methods and Tools for Project/Architecture/Risk Management in Globally Distributed Software Development Projects. Collocated with the 8th IEEE International Conference on Global Software Engineering (ICGSE 2013), Bari, Italy, August, 2013.
- Sajid Ibrahim Hashmi, Fuyuki Ishikawa, and Ita Richardson: *A Communication Process for Global Requirements Engineering*. In proceedings of the International Conference on Software and System Process (ICSSP 2013), San Francisco, USA, May, 2013, pp: 136-140.
- Sajid Ibrahim Hashmi, Viktor Clerc, Maryam Razavian, Christina Manteli, Damian Andrew Tamburri, Patricia Lago, Elisabetta Di Nitto, Ita Richardson: *Using the Cloud to Facilitate Global Software Development Challenges*. ICGSE (International Conference on Global Software Engineering) Workshops 2011, pp: 70-77. **[Presented myself]**
- Sajid Ibrahim Hashmi, Rafiqul Haque, Eric Schmieders, Ita Richardson: *Negotiation towards Service Level Agreements: A Life Cycle Based Approach*. 7th IEEE World Congress on Services, Washington DC USA, SERVICES 2011, pp: 1-8.
- Sajid Ibrahim Hashmi, Stephen Lane, Dimka Karastoyanova and Ita Richardson: *A CMMI Based Configuration Management Framework to Manage the Quality of Service Based Applications*, In Proceedings of European Conference on Software Process Improvement, Grenoble, France, 1st-3rd Sept, 2010. **[Presented myself]**
- Vispi Shroff, Louise Reid, Sajid Ibrahim Hashmi, Gerard Mulligan, Daniel Sheehy, Keyang Xiang, Ita Richardson: *Development of a Software Quality Plan for Hospitals*. HEALTHINF 2011, pp: 587-591.
- Sajid Ibrahim Hashmi and Jongmoon Baik, *Quantitative Process Improvement in XP Using Six Sigma Tools*. Seventh IEEE/ACIS International Conference on Computer and Information Science, 2008. ICIS 08. May 2008, pp: 519-524.
- Ahmad Ibrahim, Syed Ahsan Fahmi, Sajid Ibrahim Hashmi, and Ho-Jin Choi, *Addressing Effective Hidden Web Search Using Iterative Deepening Search and Graph Theory*. IEEE 8th International Conference on Computer and Information Technology Workshops, CIT Workshops, July 2008, pp: 145-149.
- Sajid Ibrahim Hashmi and Jongmoon Baik, *Software Quality Assurance in XP and Spiral - A Comparative Study*. International Conference on Computational Science and its Applications, ICCSA 2007. pp: 367-374. **[Presented myself]**
- Satyananda, Tonny Kurniadi, Danhyung Lee, Sungwon Kang, and Sajid Ibrahim Hashmi, *Identifying Traceability between Feature Model and Software Architecture in Software Product Line using Formal Concept Analysis*. International Conference on Computational Science and its Applications, ICCSA 2007. pp: 380-388. **[Presented myself]**
- Ahmad Ibrahim, Ho-Jin Choi, and Sajid Ibrahim Hashmi, *Customized Process for BPO Using CMMI for SW Focused Products*. International Conference on Convergence Information Technology, 2007. pp: 966-970.

Research Projects in Progress

- Design Models for Coordination among Globally Distributed Software Development Teams
- An Assignment Assessment System for Java

Computer Skills

Java, Scripting, HTML, MySQL, UML, BPMN, Workflow Management Tools, Mantis, Extend, COCOMO Tool, MS-Office

Expertise

Research, Team Building, Software Design, Requirements Management, Statistical Data Analysis, Software Processes and Process Improvement, Effective Communication and Coordination

Extracurricular Academic Activities

- Volunteer for the 9th IEEE International Conference on Global Software Engineering (ICGSE 2013) Bari, Italy, and the 17th International Symposium on Formal Methods (FM 2011) Limerick, Ireland
- Served as member and webmaster of *Researchers' Committee*, 2010-2013. The volunteer group was established to address the issues faced by researchers at university of Limerick and trained them on funding opportunities and career progressions
- Headed a committee at University of Limerick. The purpose of the group was to help segments of international students to get settled in a foreign culture, guide them on academic front, and organize social events and gatherings

Awards and Honours

- Won scholarship from Lero Graduate School for PhD research and studies in Ireland. The funding body was Higher Education Authority, Ireland
- Won internship bursary from NII, Japan
- PhD scholarship from Samsung Electronics South Korea for research and studies in South Korea (offered)
- Won scholarship from Samsung Electronics South Korea for M.S. studies and research
- Served as a judge for the 2013 Scratch National Competition organized by Irish Computer Society