

## Work Experience

- **Graduate Researcher** Jan 2011 - till date  
*ERODS (formerly SARDES) team, INRIA Rhône-Alpes, Grenoble, France*
- **Research Intern** Apr 2010 - Aug 2010  
*IT University of Copenhagen (ITU), Denmark*  
– SOA security Modelling and literature review of cloud computing
- **Project Trainee (SOA Governance group)** Feb 2009 - July 2009  
*CORDYS Software India Pvt. Limited, Hyderabad*
- **Graduate Research Assistant** Jan 2008 - Aug 2010  
*Software Engineering Research Lab (SERL), IIIT Hyderabad*
- **Junior Research Engineer (Handwriting Recognition project)** Sep 2006 - Dec 2007  
*Center for Visual Information Technology (CVIT), IIIT Hyderabad*
- **Lecturer** Aug 2004 - Aug 2006  
*HCTM Kaithal, Kurukshetra University*

## Education

- **PhD in Computer Science** Jan 2011 - Ongoing  
*INRIA Rhône-Alpes, Grenoble, France*  
– Thesis Title: Towards Dependability and Performance Benchmarking for Cloud Computing Services
- **Master of Science (By Research) in Computer Science** Jan 2008 - Aug 2010  
*International Institute of Information Technology, Hyderabad, India*  
– Thesis Title: Towards Evaluating Service Oriented Architectures (CGPA: 7/10)
- **Bachelor of Technology in Information Technology** July 2000 - July 2004  
*Kurukshetra University, Haryana, India (Percentage: 68%)*

## Research Interests

Cloud Computing, Service-Oriented Architectures, Software Architecture, Software Engineering

## PhD Dissertation Overview

- Proposed efficient approaches to evaluate dependability and performance for cloud computing services.
- Designed and developed MRBS (a dependability benchmark software prototype for Hadoop MapReduce).

## MS Dissertation Overview

- Introduced an approach to evaluate the impact of governance policies on prominent quality attributes in service oriented architectures.
- Explored various data security risks and proposed an analysis approach in Cloud Computing environments.

## Major Publications

“SLA and Quality-of-Service for Cloud Computing”, *la Conférence d’informatique en Parallélisme, Architecture et Système (ComPAS-2013)*, Grenoble, France, January 2013.

- “**Benchmarking Dependability of MapReduce Systems**”, *IEEE International Symposium on Reliable Distributed Systems (SRDS 2012)*, Irvine, California, October 2012.
- “**MRBS: Towards Dependability Benchmarking for Hadoop MapReduce**”, *Workshop on Big Data Management in Clouds (BDMC) in conjunction with Euro-Par 2012*, Rhodes Island, Greece, August, 2012.
- “**Dependability Benchmarking of MapReduce**”, *Poster at European Conference of Systems (EuroSys 2012)*, Bern, Switzerland, April 2012.
- “**Modelling Security for Service Oriented Applications**”, *8th Nordic Workshop on Model Driven Software Engineering (NW-MODE 2010)*, co-located with the *4th European Conference on Software Architecture (ECSA)*, Copenhagen, Denmark, 23-26 August 2010.
- “**SAGE: An Approach to Evaluate the Impact of SOA Governance Policies**”, *5th IEEE International Workshop on Service Oriented Architectures in Converging Networked Environments (SOCNE 2010)*, in conjunction with *IEEE 24rd International Conference on Advanced Information Networking and Applications (AINA)*, Perth, Australia, April 20-23, 2010.
- “**Towards Analyzing Data Security Risks in Cloud Computing Environments**”, *International Conference on Information Systems, Technology, and Management (ICISTM 2010)*, Bangkok, Thailand, March 11-13, 2010.
- “**Multilingual Web Usability Testing - A MUST Methodology**”, *Second International Conference on Creativity and Innovation in Software Engineering (CISE-2009)*, Ravda (Nessebar), Bulgaria, 10 - 12 June 2009.

## Research Projects

### January 2011 - Ongoing MyCloud

Consortium: INRIA, EMN LIP6, WeAreCloud

Objective: Providing SLA management in cloud computing infrastructures.

### May - July 2010 Migrating of MeDICi Project in a Cloud Environment

Supervised By: Dr. Muhammad Ali Babar, ITU Copenhagen

Objective: Migration of Middleware for Data-Intensive Computing (MeDICi) to a cloud computing environment using open source environments such as Eucalyptus and Hadoop.

### MS Course project 2008 Naive Bayes Classification in Hadoop Environment

Objective: Implementation of Naive Bayes classification algorithm in a cloud computing paradigm (Hadoop MapReduce) to improve the time complexity.

### MS Course project 2007 Online Clustering of Linguistic Data

Objective: Implementation of single-pass text clustering algorithm designed specifically for news stories.

### Sep 2006 - Dec 2007 Online Handwriting Recognition Engine

Supervised By: Dr. Anoop Namboodiri, CVIT, IIIT Hyderabad

Objective: Design and develop a robust and accurate handwriting recognition system for Indian scripts.

## Advance CourseWork

**During PhD:** Data Science (In french), Technology Management, ValoriDoc

**During MS:** Topics in Software Architecture, Software Platforms, Cloud Computing, System's View of Business, Advance Problem Solving, Pattern Recognition, Digital Image Processing

## Skills

**Software Development:** Java, C/C++, MySQL, UML, Matlab, Perl, HTML, Shell scripting

**Cloud Computing:** MapReduce, Hadoop, Amazon EC2, OpenNebula, Grid5000

**Toolkits/Libraries:** Eclipse, NetBeans, SVN, Latex, Hive, Mahout, Cloudburst

## Miscellaneous

- State level scholarships throughout for excellence in academics
- Awards in Cricket, Yoga and Basketball
- **Top Conferences (Attended):** ComPAS-2013, SRDS-2012, EuroSys-2012, CSEET-2009, ICGSE-2008, ISEC-2008, IJCAI-2007

## Referees

Dr. Sara Bouchenak <i>Assistant Professor, University of Grenoble, France</i>	Email: sara.bouchenak@imag.fr +33 04 76 51 44 11
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## Other Information

**Nationality:** Indian                      **Languages:** English (Fluent), Hindi (Native), French (Intermediate)  
**Date of Birth:** 5th October 1983       **Availability:** January 2014