

# Lahiru Sandakith Gallege

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## Research Interests

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Software Engineering, Big Data, Recommender Systems, Machine Learning, Data Mining,  
Trust Aspects of Software and Services, Software Selection and Matching Algorithms, Distributed Systems.

## Education

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- PhD, Computer Science** **December 2016**  
PhD - Purdue University, Indianapolis (IUPUI), Indiana, USA.  
PhD Dissertation – TruSStReMark  
Trust-based Service Selection and Recommendation for Online Software Marketplaces.
- MS, Computer Science** **August 2011**  
Purdue University Indianapolis (IUPUI), Indiana, USA. - GPA: 3.92/4.00  
[MS Thesis](#) - Design and Experimentation of a Discovery Service with Multi-level Matching.
- BSc, Computer Science & Engineering** **August 2005**  
Department of Computer Science and Engineering  
University of Moratuwa, Sri Lanka (First Class Honors – Class Rank 1).

## Professional Experience

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- [Angie's List Inc.](#) - **Software Engineering Intern** **summer 2014**  
Worked on a project to automatically tag and recommend service requests using an AL dataset.
- [Rosen Center for Advanced Computing](#) - **Programming Intern** **summer 2011**  
Worked on scientific research web forms and databases: ITMIG Project - Thymic Cancer Portal.
- [WSO2 Inc.](#) - **Senior Software Engineer** **2006 - 2008**  
Worked on the tooling framework of the WSO2 Web Services based products and solutions.
- [Aepona Inc. \(Now part of Intel\)](#) - **Software Engineer** **2005 - 2006**  
Worked on the MDP (Mobile Delivery Platform) product implementation and support.
- [Indiana University - Purdue University, Indianapolis \(IUPUI\)](#) **2008 - 2016**  
**Graduate Assistant** – Working on research projects under the supervision of Prof. Raje.  
Currently a Member of Software Engineering and Distributed Systems (SEDS) Lab.  
**Teaching Experience** – Teaching Assistant for Graduate Level Courses (CS56500, CS5800 and CS53700).  
Experience in conducting recitation classes (CS56500, CS5800 and CS53700).  
Programming Languages (CS56500), Data Structures & Algorithms (CS5800), Distributed Systems (CS53700).

## Technical Skills

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- Programming Languages** : Proficient in Java and SQL, Experience in C#, C++, PHP, Python.  
**Software Engineering** : OOP Concepts, Design Patterns, Data Structure and Algorithms.  
**Development tools** : GNU tool-chain, Shell scripting, Git, Eclipse tool-chain, CVS, Subversion.  
**Database Applications** : MySQL, Apache Derby, Oracle.  
**Operating Systems** : Linux (UNIX), Windows.

## Project Contributions

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### Trustworthy Service Selection and Recommendation Project

TruSStReMark

A framework for trustworthy representation, selection and negotiation of software services.  
Working on recommending software services based on their trust for composing software systems.  
PhD Project - <http://uniframe.cs.iupui.edu/trusscom>

### Framework for Seamless Integration of Heterogeneous Distributed Components

UniFrame

A framework for interoperation of heterogeneous and distributed software components.  
Worked on integration part of the discovery service with the concepts of multi-level matching.  
MS Project - <http://uniframe.cs.iupui.edu>

### Eclipse - Web Tools Platform (Open Source Project Contribution)

Eclipse - WTP

Worked on the Axis2 based web services implementation of Eclipse WTP (Web Tools Platform).  
This work is published in the Eclipse Wiki - [http://wiki.eclipse.org/Creating\\_a\\_bottom-up\\_Axis2\\_Web\\_service](http://wiki.eclipse.org/Creating_a_bottom-up_Axis2_Web_service).  
Awarded with the Eclipse Project Privileges as an Open Source Contributor - <http://www.eclipse.org/webtools>.

### Apache Axis 2 Web Services Engine (Open Source Project Contribution)

Axis2 Tools

Implemented and improved the tooling aspects of Apache Axis2 web services framework.  
This work is published in WSO2 Library as a hands on tutorial - <http://wso2.com/library/1986>  
Awarded with the Apache Software Foundation Contributor Privileges - <http://axis.apache.org>

### 3 Dimensional Intelligent Arm

3DIA

Final Year Undergraduate Project, University of Moratuwa, Sri Lanka  
Modeling natural movements of an arm using neural networks and evolutionary learning algorithms.  
Won the CINTEC Award for the Best Computer Science Final Year Student Project.

## Special Achievements

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Open Source Project Contributor for the Eclipse Foundation – Java Based WTP (Web Tools Platform).  
Open Source Contributor and Project Management Committee member for the Apache Software Foundation.  
Gold Medal (Class Rank 1) for the best computer science undergraduate, University of Moratuwa, Sri Lanka.

## Selected Publications

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- L. S. Gallege, "TruSSCom – Proposal for Trustworthy Service Representation, Selection and Negotiation for Integrating Software Systems", in the proceedings of ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity ( SPLASH / OOPSLA 2013 ) - Doctoral Symposium.
- L. S. Gallege, D. U. Gamage, J. H. Hill, and R. R. Raje, "Trustworthy service selection using long-term monitoring of trust contract", in the proceedings of 17th IEEE International Conference on Enterprise Computing Conference ( EDOC 2013 ).
- L. S. Gallege, D. U. Gamage, J. H. Hill, and R. R. Raje, "Trust contract of a service and its role in service selection for distributed software systems", in the proceedings of 8th ACM Cyber Security and Information Intelligence Research Workshop ( CSIIRW 2012 ).  
( Publication List: <http://cs.iupui.edu/~lspileth/paper.html> )

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**1<sup>st</sup> of December 2016**

**Lahiru Sandakith (Pileththuwasan) Gallege**

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