Thilina Buddhika

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Education

- **Ph.D in Computer Science**   **Sept, 2013 – present**
  Colorado State University   *Fort Collins, Colorado, USA*
- **B.Sc in Computer Science and Engineering** - GPA 4.02/4.2   **2005 – 2009**
  University of Moratuwa   *Moratuwa, Sri Lanka*

Research Interests

- Distributed Systems, Distributed Stream Processing Systems, Complex Event Processing Systems, Large Scale Data Processing

Skills

- **Concepts/Paradigms**

  Distributed Systems, Stream Processing, MapReduce, Web Services and Service Oriented Architectures, Web Services Security, Enterprise Integration
- **Programming Languages**

  Java, Python, JavaScript, SQL, Shell Scripting
- **Systems/Frameworks**

  Apache Hadoop, Apache Storm, Apache Axis2, WSO2 Carbon
- **Software Development Tools**

  Git, Subversion, Maven, Ant

Selected Coursework

- Distributed Systems (CS 455)
- Machine Learning (CS 545)
- Big Data (CS 535)
- Advanced Database Systems (CS 533)
- Computer Security (CS 556)

Professional Experience

- **Colorado State University**   **Fort Collins, CO**
  Graduate Teaching Assistant   *Sept, 2013 - Present*
  - **Courses:** Distributed Systems, Database Systems, Systems and Network Administration, Object Oriented Problem Solving

- **WSO2 Inc.**   **Colombo, Sri Lanka**
  Software Engineer   *April, 2009 - July, 2012*
  - Lead the WSO2 Identity Server team for one and half years delivering two major product releases and several minor releases.
  - Designed and implemented SAML 2.0 based single sign-on support and OAuth 2.0 support in WSO2 Identity Server.
  - Member of initial development team of WSO2 Stratos - An open source complete Platform-as-a-Service implementation and WSO2 API Manager.
  - Implemented feature enhancements in WS-Security, WS-Trust and in platform security aspects of WSO2 Carbon platform.

- **WSO2 Inc.**   **Colombo, Sri Lanka**
  Software Engineering Intern   *October, 2007 - April, 2008*
  - Implemented a JRuby binding for Apache Axis2.

Open Source Contributions

- **Apache Software Foundation**
  Product Management Committee member and Committer, Apache Axis Project   *Jan, 2011 - present*
  - Authored SAML 2.0 support for WS-Trust implementation in Apache Rampart.
  - Performance, documentation and test coverage improvements for Apache Rampart.

- **Google Summer of Code**

  Apache Rampart   *Summer, 2009*
  - Improving the test coverage in Apache Rampart.

  Apache Tuscany Project   *Summer, 2008*
  - Implemented Tuscany SCA support in Apache Geronimo application server .

Awards and Merits

- Outstanding Contributor Award, WSO2 Inc.   *2012*
- Outstanding Contributor Award, WSO2 Inc.   *2011*
- Dean's List recipient for academic excellence, University of Moratuwa   *2005 - 2009*

Publications

- Thilina Buddhika ; Indrakshi Ray ; Mark Linderman and Anura Jayasumana " Secure complex event processing in a heterogeneous and dynamic network ", Proc. SPIE 9079, Ground/Air Multisensor Interoperability, Integration, and Networking for Persistent ISR V, 907907 (June 10, 2014)

Other Experience

- **OASIS TOSCA Technical Specification Committee**
  OASIS - Topology and Orchestration Specification for Cloud Applications (TOSCA) Version 1.0   *2011 - 2012*
  - A member of the technical specification committee representing WSO2.

- **Google Summer of Code**
  Mentor representing Apache Software Foundation   *2010*

References

Dr. Indrakshi Ray
Professor, Colorado State University
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Dr. Indrajit Ray
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Dr. Srinath Perera
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