# Hasini Gunasinghe

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## Education

- **Ph.D in Computer Science**                                          *Aug 2013 – present*
  *Purdue University*                                                    *West Lafayette, IN, USA*

- **B.Sc in Computer Science and Engineering** - First Class Honors      *2006 – 2010*
  *University of Moratuwa*                                               *Moratuwa, Sri Lanka*

## Research Interests

- I am interested in the areas of information security and data mining.

## Professional Experience

- **Purdue University**                                                  *Aug 2013 – present*

  - *Graduate Teaching Assistant*
    Coordinated five project teams in Software Engineering (CS 307).

  - *Graduate Research Assistant*
    Designed and developed a privacy preserving biometrics based authentication protocol and a pseudonymous identity management protocol to prevent linkability in the digital identity ecosystem .

- **WSO2 Inc.**                                                         *Sept 2010 – May 2013*
  *Software Engineer*

  - Designed and developed standardized identity provisioning feature in WSO2 Identity Server with support for multi-tenancy and OAuth based authentication.

  - Led WSO2 Charon project which implements the open standard - SCIM (System for Cross-domain Identity Management).

  - Participated in the first SCIM interoperability event at IETF 83rd meeting representing WSO2.

  - Implemented performance improvements for XACML PEP-PDP communication using Thrift in WSO2 Identity Server.

  - Implemented multi-tenancy support for LDAP based user store in WSO2 Cloud Platform.

  - Participated in short term client engagements in USA and Germany in which I have conducted training and developed proof of concepts around WSO2 products.

  - Speaker in WSO2Con – 2013 which was held in London, UK.

  - Managed three releases of WSO2 Identity Server (3.2.0, 3.2.3 and 4.0.0) as the release manager.

- **Wavenet International Pvt Ltd**
  *Software Engineering Intern*                                          *Oct 2008 – March 2009*

  - Designed and developed a SIP based soft phone from the root level with support for both audio and video streams which was a R&D project carried out by a team of two interns.

## Publications

- **Refereed conference papers**
    - H. Gunasinghe, E. Bertino, "Privacy Preserving Biometrics-Based and User Centric Authentication Protocol", Network and System Security - 8th International Conference, NSS 2014, Xi'an, China, Oct 2014.

    - Dilshan Amadoru, Hasini Gunasinghe, Chamini Hasanga, Visakha Nanayakkara, Srinath Perera. Wihidum : On the Performance of Two Topologies for a Distributed Broker Hierarchy of Publish-Subscribe Middleware. In Proceedings of the 2nd Computer Science & Engineering Society Conference (CS&ES '10). Sri Lanka. ISBN-978-955-9027-37-9

- **Peer reviewed technical articles**  *(available at http://wso2.com/library)*
    - Fine-Grained Authorization to RESTful Services with XACML
    - Security Challenges in the Cloud
    - How WSO2 StratosLive meets Security Challenges in Cloud

- **Webinars**
    - Standardizing Identity Provisioning with SCIM
    - Security Patterns with the WSO2 Enterprise Service Bus

## Awards and Merits

- Best Paper Award in the 8th International Conference on Network and Systems Security        *2014*
- Outstanding Contributor Award, WSO2 Inc.        *2012*
- Outstanding Contributor Award, WSO2 Inc.        *2011*
- Placement in Dean's List for academic excellence, University of Moratuwa        *2006 - 2010*
- Second Runner Up in the Software Design Category of Imagine Cup-2008, Microsoft, Sri Lanka        *2008*

## Skills

- **Programming Languages**
    Java, C, C++, Python, R
- **Software Development Tools and Methodologies**
    Git, Subversion, Maven, Ant, SCRUM

## Other Activities

- Student Member, CERIAS        *2013 - present*
- Committer, initial SCIM Working Group (http://code.google.com/p/scim/people/list)        *2012*
- Volunteered Visiting Instructor, University of Moratuwa.        *2009–2010*
- Volunteered for IT services in 10th South Asian Games which was held in Colombo.        *2006*
- Member, Gavel Club (Affiliate of Toastmasters International)        *2006–2007*