

# Supun Nakandala

Research Software Developer  
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## EDUCATION

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*Jun 2010 - Apr 2015* BSc.Eng(Hon's) (COMPUTER SCIENCE & ENGINEERING) [University of Moratuwa](#) - Sri Lanka  
Cumulative GPA: 4.11/4.20  
Ranked first in a batch of 100 students specializing Computer Science & Engineering.

## PUBLICATIONS

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- Nov 2016* **Nakandala, S.**, Giovanni, C., Norman, S., Ahn, Y., "Gendered Conversation in a Social Game-Streaming Platform". [Submitted to 26'th International World Wide Web Conference 2017] (pdf: <https://goo.gl/Fa0lXW>, media: <https://goo.gl/YE0dyn>)
- Oct 2016* **Nakandala, S.**, Pamidighantam, S., Marru, S. and Pierce, M. "Better Data Discoverability in Science Gateways". In Proceedings of *11'th Gateway Computing Environments Conference 2016 (GCE)*. [Extended Abstract] (pdf: <https://goo.gl/YdZmZ6>)
- Jul 2016* **Nakandala, S.**, Gunasinghe, H., Marru, S., Pierce, M. "Apache Airavata Security Manager: Authentication and Authorization Implementations for a Multi-Tenant eScience Framework". In Proceedings of *IEEE 12'th International Conference on eScience 2016*. (pdf: <https://goo.gl/5lTtm2>)
- Jun 2016* **Nakandala, S.**, Pamidighantam, S., Yodage, S., Doshi, N., Abeysinghe, E., Kankanamalage, C.P., Marru, S. and Pierce, M. "Anatomy of the SEAGrid Science Gateway". In Proceedings of *Extreme Science & Engineering Discovery Environments Conference on Diversity, Big Data, and Science at Scale 2016 (XSEDE)* (p. 40). ACM. (pdf: <https://goo.gl/oytirb>)
- Apr 2015* Pamidighantam, S., **Nakandala, S.**, Abeysinghe, E., Wimalasena, C., Rathnayaka, S., Marru, S. and Pierce, M. "Community Science Exemplars in SEAGrid Science Gateway: Apache Airavata Based Implementation of Advanced Infrastructure". In Proceedings of *Workshop on Computational Chemistry and Its Applications - International Conference on Computational Science 2016 (ICCS)*. (pdf: <https://goo.gl/btjjAK>)
- Dec 2014* **Nakandala, S.**, Withana, S., Kumarasiri, D. and Jayawardena, H., "A Study on SSD Aware Scan Operation Optimization in PostgreSQL Database". In Proceedings of *Information Technology Research Unit (ITRU) Symposium 2014*, (pp. 16 - 19), University of Moratuwa Sri Lanka. (pdf: <https://goo.gl/PIzYuU>)

## TEACHING EXPERIENCE

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*May 2015 - Aug 2015* Teaching Assistant for Operating Systems Course (CS 2042), CSE-UoM.  
The objective of this course was to provide fundamental knowledge in Operating Systems to computer science students. My tasks included providing instructions for the labs and grading assignments.

## WORK & INTERNSHIPS

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- Oct 2015 - present*      Research Software Developer - [Science Gateways Research Center](#), Indiana University  
Program committee member and core developer in the [Apache Airavata](#) project which is a science gateway middleware framework that enables users to compose, manage, execute, and monitor large scale applications and workflows on distributed computing resources such as local clusters, supercomputers, computational grids, and computing clouds.
- May 2014 - Sep 2014*      Google Summer of Code Intern for Apache Airavata  
Before this work Airavata did not support security capabilities for communication between Airavata based gateways and the Airavata server. In this project I implemented security capabilities to Airavata thrift services and clients (link: <https://goo.gl/4qAS3X>).
- May 2013 - Sep 2013*      Google Summer of Code Intern for phpMyAdmin  
Refactored the SQL executor and column structure manipulation code in phpMyAdmin, which is an open-source web based interface for the MySQL databases (link : <https://goo.gl/JNk3vM>).

## HONORS, AWARDS & SCHOLARSHIPS

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- Aug 2015*      [IBM Gold Medal](#) for the Best Academic Performance in Computer Science & Engineering - University of Moratuwa.
- May 2014*      Scholarship to attend [4<sup>th</sup> South Asia Workshop](#) (2014) on Research Frontiers in Computing - NUS School of Computing
- Aug 2010 - Apr 2015*      [Mahapola Higher Education Merit Scholarship](#) for Undergraduate Studies - Government of Sri Lanka.
- Nov 2009*      Award for the Most Outstanding Student - De Mazenod College (High School).
- Mar 2009*      President's Scout (Eagle Scout Equivalent) - Sri Lanka Scout Association.

## LEADERSHIP & EXTRA CURRICULAR ACTIVITIES

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- 2014*      Membership Co-Chair, ACM Student Chapter - University of Moratuwa.
- 2011*      Editor, Sri Lanka University Catholic Students Movement.
- 2008*      Head Prefect, De Mazenod College (High School).