

VIMUTH FERNANDO

201 N Goodwin Ave., Urbana, IL, 61801, USA
wvf2@illinois.edu ♦ +1 217 419 1384

EDUCATION

PhD, Computer Science University of Illinois at Urbana Champaign Urbana, IL, USA Advisor - Prof. Sasa Misailovic	August 2016 - Present
MSc, Computer Science and Engineering University of Moratuwa, Katubedda, Sri Lanka Advisor - Prof. Sanath Jayasena	August 2015 - August 2016
BSc, Computer Science and Engineering First Class University of Moratuwa, Katubedda, Sri Lanka	August 2010 - August 2015

WORK EXPERIENCE

University of Illinois at Urbana Champaign <i>Research Assistant</i> <i>Advisor : Sasa Misailovic</i>	August 2016 - Present
University of Moratuwa <i>Research Assistant</i> <i>Advisor : Sanath Jayasena</i> <i>Topic : Autotuning Multi-tiered Applications</i>	August 2015 - August 2016
Google Summer of Code <i>Intern</i> <i>Contributor to Apache Software Foundation</i> <i>Worked on evaluating and modularizing the build system for Apache Pig</i>	April 2014 - August 2014
WSO2 <i>Software Engineering Intern</i> <i>WSO2 Private PaaS Team</i> <i>Worked on building a centralized logging and metering system for distributed containers</i>	Nov 2013 - Feb 2014

PUBLICATIONS

- Vimuth Fernando**, Keyur Joshi, Sasa Misailovic, Verifying Safety and Accuracy of Approximate Parallel Programs via Canonical Sequentialization, *34th ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages and Applications. (OOPSLA/SPLASH)*, 2019
- Vimuth Fernando**, Keyur Joshi, Darko Marinov, Sasa Misailovic, Identifying Optimal Parameters for Randomized Approximate Algorithms, *Workshop on Approximate Computing Across the Stack (WAX) (Collocated with PLDI)*, 2019
- Farah Hariri, August Shi, **Vimuth Fernando**, Suleman Mahmood, Darko Marinov, Comparing Mutation Testing at the Levels of Source Code and Compiler Intermediate Representation, *12th IEEE International Conference on Software Testing, Verification and Validation (ICST)*, 2019
- Keyur Joshi, **Vimuth Fernando**, Sasa Misailovic, Algorithmic Profiling for Randomized Approximate Programs, *41st ACM/IEEE International Conference on Software Engineering (ICSE)*, 2019

Vimuth Fernando, Antonio Franques, Sergi Abadal, Sasa Misailovic, Josep Torrellas, Replica: A Wireless Manycore for Latency-Critical Data, *24th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2019

Vimuth Fernando, Sanath Jayasena. Autotuning Multi-tiered Applications for Performance, *12th IEEE International Conference on Industrial and Information Systems (ICIIS)*, 2017

Vimuth Fernando, Milinda Fernando, Tharindu Rusira and Sanath Jayasena. Enhancing X10 performance by auto-tuning the managed java back-end, *2016 Sixteenth International Conference on Advances in ICT for Emerging Regions (ICTer)*, Negombo, 2016

PRESENTATIONS

Poster - Auto-tuning Multi-tiered Applications for performance
International Symposium on Code Generation and Optimization 2016 (CGO)
Barcelona, Spain

AWARDS AND ACHIEVEMENTS

ACM Student Research Competition - 2nd Runner Up
Graduate Student Category
International Symposium on Code Generation and Optimization 2016 (CGO)

Prof. V K Samaranayake Research Grant
Awarded by LK Domain Registry, Sri Lanka

Travel Grant
PLMW at PLDI'17

Dean's List
University of Moratuwa
2010, 2011, 2013, 2014

OTHER EXPERIENCE

Student Volunteer at SC'15 (The International Conference for High Performance Computing, Networking, Storage and Analysis) Austin, Texas

Teaching Assistant at University of Moratuwa
Operating Systems (CS2042), Computer Networks (CS 3032), Concurrent Programming (CS4532)

Attended Oregon Programming Languages Summer School 2017 (OPLSS'17)