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**ARUN KALYANASUNDARAM**

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**PERSONAL INFORMATION**

*Areas of Interest:* Social Media Analytics, Applied Machine Learning, Distributed Systems.

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**EDUCATION**

<b>Ph.D. in Societal Computing</b> Carnegie Mellon University School of Computer Science	GPA: 4.00	Aug. 2013 - Present
<b>Master of Technology in Computer Science.</b> International Institute of Information Technology Bangalore (IIIT-B)	GPA: 3.89	Jul. 2011
<b>Bachelor of Engineering (Hons.)</b> Electronics & Instrumentation Engineering Birla Institute of Technology & Science, Pilani (BITS, Pilani)	GPA: 8.2 out of 10.0	Jun. 2006

**PROFESSIONAL EXPERIENCE**

<b>VMware Inc., Palo Alto – Performance Intern</b>	May 2015 – Aug. 2015
<ul style="list-style-type: none"><li>• Developed an auto-scaler service for a cloud computing platform.</li><li>• Evaluated its performance by building a cloud native app benchmark using Netflix OSS components.</li><li>• Designed workloads using Apache JMeter to simulate real world scenarios.</li></ul>	
<b>Hewlett-Packard Company, India - Senior Software Engineer</b>	Jul. 2011 – Jul. 2013
<ul style="list-style-type: none"><li>• Launched several experiments on Amazon Mechanical Turk such as refer a task to friends on Facebook, video analytics, and goal gradient effect on worker performance.</li><li>• Filed two Patents – a) Task Assignment and b) Result Aggregation in Crowdsourcing.</li></ul>	
<b>Hewlett-Packard Labs, India - Research Intern</b>	Jan. 2011 – Jun. 2011
<ul style="list-style-type: none"><li>• Algorithms to detect influential users in a social network and implemented an incentive based routing app on Twitter.</li></ul>	
<b>Novell Inc., India - Senior Software Engineer</b>	Jul. 2007 – Jul. 2009
<ul style="list-style-type: none"><li>• Developed package management features for the SUSE Linux Operating system.</li><li>• Led a team of eight engineers on two sprints that lasted for three months.</li></ul>	

**COMPUTER SKILLS**

**Programming Languages:** Java, C++, JavaScript, Python.

**Software Tools:** R, Weka, Apache JMeter, Matlab, SPSS.

**GRADUATE COURSE WORK**

**Systems:** Distributed Computing, Operating Systems, Computer Architecture.

**Analytics:** Applied Machine Learning, Computational Modeling, Network Analysis.

**SELECTED CONFERENCE PUBLICATIONS - (All Peer Reviewed)**

- E. Trainer, **A. Kalyanasundaram**, C. Chaihirunkarn, and J. Herbsleb, “*How to Hackathon: Socio-technical Tradeoffs in Brief, Intensive Collocation*”, To Appear: In Proceedings of ACM Computer Supported Cooperative Work and Social Computing (CSCW), 2016.
- **A. Kalyanasundaram**, Wei Wei , Kathleen M. Carley , and James D. Herbsleb, “*An Agent-Based Model of Edit Wars in Wikipedia: How and When is Consensus Reached*”, To Appear: In Proceedings of the 2015 Winter Simulation Conference (WSC '15)', 2015.
- E. Trainer, C. Chaihirunkarn, **A. Kalyanasundaram**, and J. Herbsleb , “*From Personal Tool to Community Resource: What's the Extra Work and Who Will Do It?*”, In Proceedings of the 2015 ACM Computer Supported Cooperative Work and Social Computing (CSCW), 2015, pp. 417-430.
- E. Trainer, C. Chaihirunkarn, **A. Kalyanasundaram**, and J. Herbsleb , “*Community Code Engagements: Summer of Code & Hackathons for Community Building in Scientific Software*”, In Proceedings of 2014 ACM Conference on Supporting Group Work (Group 2014), pp. 111-121.
- P. Chandra, and **A. Kalyanasundaram**, “*A Network Pruning Based Approach for Subset Specific Influential Detection*”, In Proceedings of the 4th Annual ACM Web Science conference (WebSci), 2012. (Nominated for best paper award)
- **A. Kalyanasundaram**, B. B. Roy, and S. Rao, “*Exploiting Data Parallelism in SELinux Using a Multicore Processor*”, in Proceedings of the 47th Annual National Convention of Computer Society of India (CSI), 2012.
- **A. Kalyanasundaram**, R. A. K. Lalkhanwar, and S. Rao, “*Fail-Stop Distributed Combinatorial Auctioning Systems with Fair Resource Allocation*”, in 7th Annual IEEE Conference on Automation Science and Engineering (CASE), 2011.

**RECENT PROJECTS (Only Titles)**

- A Machine Learning Approach to Automatically Label Issues on Github.
- Data Mining for Social Good - A footprint of your online social activism.
- Computational Models of Collaborations such as Hackathons and Wikipedia.