Arun Kalyanasundaram

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EDUCATION

M.S. Societal Computing (*Ph.D. Discontinued*) GPA: 4.00 / 4.33   Aug. 2013 – Aug. 2017

Carnegie Mellon University, School of Computer Science
Major: Societal Computing (Information Technology)

Master of Technology GPA: 3.89 / 4.0   Jul. 2009 – Jul. 2011

International Institute of Information Technology Bangalore (IIIT-B)
Major: Computer Science

Bachelor of Engineering (Hons.) & Master of Science (Hons.) GPA: 8.19 / 10.0   Aug. 2001 – Jun. 2006

Birla Institute of Technology & Science (BITS), Pilani, India
Dual Degree Majors: Electronics & Instrumentation / Chemistry

WORK EXPERIENCE

Google Inc., Sunnyvale, CA– *Software Engineering Intern* May 2017 – Aug. 2017

- Statistical models to assess the overhead, correctness, and fairness of the *Perf* subsystem in Linux Kernel.
- Upstream contribution (merged) – using C API for Python: lkml.org/lkml/2017/7/21/654

Microsoft Corporation, Redmond – *Research Intern* May 2016 – Aug. 2016

- Measured success of projects that transitioned from proprietary code to Open Source Software.
- GUI tool to extract and analyze data from GitHub: github.com/arunk054/oss-analyzer

VMware Inc., Palo Alto – *Performance Intern* May 2015 – Aug. 2015

- Auto-scaler service implementation and performance evaluation for a cloud computing Iaas.
- Ported an industry standard benchmark to MongoDB: github.com/arunk054/acmeair-netflix

Hewlett-Packard Company, India – *Senior Software Engineer* Jul. 2011 – Jul. 2013

- Designed algorithms to optimize social media campaigns – Published: dl.acm.org/citation.cfm?id=2380726
- Developed social media based crowd sourcing platform – *US Patent: google.com/patents/US20150363741*

Hewlett-Packard Labs, India – *Research Intern* Jan. 2011 – Jul. 2011

Novell Inc., India – *Senior Software Engineer* Jul. 2007 – Jul. 2009

- Maintained package management in OpenSuSE Linux. E.g.: bugzilla.novell.com/show_bug.cgi?id=214285

Verizon Data Services, India – *Software Engineer* Jun. 2006 – Jul. 2007

- Design and development of a voice portal system using Apache Struts and VXML.

STMicroelectronics, India – Co-op Jun. 2005 – Jun. 2006

TECHNICAL SKILLS

- **Python**, R, Machine Learning (*Samples [2014]:* github.com/arunk054/machine-learning-algos)
- **Java** (*Sample – Tetris style game [2007]:* github.com/arunk054/puyo-game-tetris-style)
- **C/C++** (*Sample – GTK based virtual file system [2009]:* github.com/arunk054/virtual-file-system)
- *Relevant Coursework:* Applied Machine Learning (A+), Computational Modeling (A+), Dynamic Network Analysis (A), Social Web (A), Distributed Computing (A), Computer Architecture (A)