

SRIRAM PADMANABHAN

1000 Curran St. NW, Atlanta GA 30318 | 404 - 910 - 6736
http://tuxerman.github.io | sriramp@gatech.edu

Computer Science graduate student looking for a full time position starting June 2015. Interests: Distributed Computing, Networking, Cloud.

Professional

-
- | | | | |
|---|---------------------------|--------------------|-----------------|
| • Software Engg. Intern | Rackspace | python – Openstack | May 14 - Aug 14 |
| Developed an API-call rate limiter for Cloud Queues (based on Openstack Marconi), wrote provider drivers for a new CDN-management solution. | | | |
| • Systems Engineer | Siemens Technology | Visual C++, C# | Jul 12 - Apr 13 |
| Worked on software for ECG recording and analysis. Also developed new log-analysis and GUI-management tools to automate tasks and enhance developer productivity. | | | |

Technical Experience

-
- | | | |
|--|--------------------------|--------|
| • Project Data Mule - Intel Hackathon for Internet of Things | arduino C++, python | 2014 |
| An ad-hoc networked system that routes and gathers data opportunistically from sensor-boxes in a post-disaster environment. | | |
| • Airclip: Ubiquitous Copy Paste - Hobby Project | python, mongodb, flask | 2014 |
| A cloud-based clipboard that effectively lets you do a Ctrl-(alt)-C on one device and a Ctrl-(alt)-V on another. Supports multiple devices, users, and includes a 'build your clipboard' feature to append collaboratively. | | |
| • SoftNannies - Home Networks and SDN | pyretic, openflow, shell | 2014 |
| A software-defined networking approach to managing home networks. Facilitates fair sharing of bandwidth among users while making parental control and home network management easier. | | |
| • Graduate Research Project | 802.11 networking | 2014 - |
| Detecting last-mile performance bottlenecks in home broadband networks using monitor-mode traces.
(In other words, seeking to arrive at a pointed answer to "Why oh why does my Wifi crawl?") | | |
| • Rockies to the Acappellachians - Computational Social Science | python, sqlite | 2014 |
| Computed lyrics similarity between more than 26,000 artists belonging to over 500 genres connected in a musical similarity network. Also computed how closely-knit major genres are in terms of linguistic similarity in lyrics. | | |
| • Rateless coding in Delay Tolerant Networks | C++, ns-2 | 2013 |
| Applied Rateless coding to mobile ad-hoc routing protocols to evaluate their effectiveness in packet delivery. | | |
| • Gesture-based tasker for Android - User Experience | scripting layer: android | 2012 |
| Captures and recognizes (in under half a second) hand-drawn gestures in space with the phone to perform various functions. | | |
| ▪ IMPRES: Robotic Framework - Hardware Project | matlab, python, arduino | 2011 |
| An open hardware robotic platform for identifying and tracking objects, telepresence, and intrusion detection.
Won the award for Best Junior-project, 2011. | | |

Education

-
- | | | | |
|--|-------------------------------------|-----------|----------|
| • Georgia Institute of Technology | MS, Computer Science | 3.6 / 4.0 | May 2015 |
| Distributed Computing, Advanced OS, Computer Networks, Advanced Internet Computing, Computational Social Science | | | |
| • College of Engineering Trivandrum, India | B. Tech, Applied Electronics | 8.4 / 10 | May 2012 |
| Functional Electronics, Computer Architecture, Data Structures, Artificial Neural Networks, Digital Image Processing | | | |

Skills

-
- Languages: Python, C/C++, C#.NET, Shell scripting, Matlab
 - Misc: Git, SQL, Physical computing (Arduino, Atmel AVR), Wireshark

Miscellanea

-
- First prize for **Robotics** design, development and coding at Tathva '10 conducted by National Institute of Technology, Calicut. Consolation Prize for **Manual-and-autonomous Robotics** at Shastra 2010, conducted by IIT, Madras.
 - Finalist at National-level workshop on **Mechatronics and Control systems**, at Shastra 2009, IIT-Madras.
 - Awarded the Medal for Academic Proficiency and All Round Achievement in high school over consecutive years.
 - Content Writer for Cochin Twestival 2011, a global social media event and fundraiser for social causes. Blog post for the same won the International prize for the Most Insightful Blog Post.
 - Photographer, musician and storyteller. Railway enthusiast with a penchant for branch lines and little-known stations.