Pranesh Pandurangan

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Education

2011-2013 **MS, Computer Science**; Georgia Institute of Technology(Atlanta)

Specialization: Systems GPA – 3.8/4

2007-2011 **BTech, Computer Science and Engineering** National Institute of Technology(Trichy)

GPA: 8/10

Experience

Tech Yahoo, Intermediate, Yahoo Inc:, 2013-present
Openstack developer

- Getting OpenStack to be used at Y! (as its core infrastructure), which involves code changes to OpenStack, conferences and session talks on needed features (ie to be used at Y! scale) and integration into Y!'s core systems and ensuring the work that Y! does is given back to the community.

Graduate Research Assistant, Georgia Tech, 2012-2013

- Computation Offloading for mobile applications
  Automatically detect and offload computation-intensive components of mobile applications to the cloud, while accounting for intermittent connectivity to the internet. Implemented on android.
  — COSMOS: Computation Offloading as a Service for Mobile Devices.
  Cong Shi, Karim Habak, Pranesh Pandurangan, Mostafa Ammar, Mayur Naik, and Ellen Zegura. MobiHoc'14: ACM Symposium on Mobile Ad Hoc Networking and Computing.
- Intermittent Storage for Mobile Devices
  Framework to enable mobile devices to temporarily offload files to nearby devices when out of space and lacking network connectivity. Implemented the framework in the **ONE simulator**

Interim Engineering Intern, Qualcomm Inc., 2012

- Designed and implemented a task level profiling tool in C and Python. This was a software implementation of a hardware tool used in judging modem performance

Intern, TU Darmstadt, 2010

- Exploring Visual Self-localisation Algorithms for Mobile Platforms
  Map the movement of a robot, given a sequence of stereo images taken from it.

Visiting Intern, National University of Singapore, 2009

- Coordinated Behaviour of Multiple robots
  Implemented a military escort system using a few commodity robots (Rovio from WowWee) and Player/Stage software

Technical Experience

Open Source Contributed reviews and code upstream on several openstack projects, core in taskflow (https://wiki.openstack.org/TaskFlow) and anvil (https://anvil.readthedocs.org/en/latest/)

Entropy Entropy is a framework to write cluster-check scripts, and reaction scripts to the errors/issues these audits raise. This automates reacting to failure. A potentially more important use is to aggregate failures, notice trends in failures, and developing a database of known failures to make dealing with new ones easier. https://github.com/stackforge/entropy https://launchpad.net/openstack-entropy

Programming Languages Python, C, C++