

Venkata Subramanian Mahalingam

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Summary

Four years experience in designing, implementing high quality software systems and solving hard problems. Areas worked in – Internet Data Management, Information Extraction, Robotics, Transportation Solutions (ride sharing, automated dispatch). I love learning new things and open to work in any area or technology.

Education

Masters, Computer Science

Aug 2008 – May 2010

Georgia Institute of Technology, Atlanta, GA, USA.

(CGPA) 3.86/4

Bachelor of Technology, Information Technology

June 2001 – June 2005

College of Engineering, Guindy – Anna University, India

(CGPA) 8.59/10

Technology

Predominantly use Python 2.4, MySQL and Linux (Debian) at work. Use C++ (Visual Studio 2008) for robotics simulation. Familiar with Yahoo UI javascript framework, XML, Xpath, gnuplot.

Industry Experience

Ridecell, Atlanta, GA (Fall 2008 – Present, 1 year)

Ridecell is a Georgia Tech backed startup for providing transportation solutions. Working as research engineer with GRA. Designed and implemented a ride-sharing system. (<http://vryde.com/>)

Currently working on automating the van dispatch system for Georgia Tech Parking and Transportation.

Used Python, MySQL, Django, YUI, Twilio voice response service.

Veveo India Private Limited, Bangalore, India (June 2006 - July 2008, 2 years)

Veveo is a startup company based at Andover, MA, providing search services for input constrained devices (<http://vtap.com/>). All code was written in python.

- Correlation of sports related information from various sources (sports sites, schedule, web video, TV schedule)
- Developing a distributed queue framework for large-scale crawling.
- Job scheduler to utilize the in-house transcoding service.
- Indexing video information using an automated blog crawler.
- System for specialized composition and featuring of video clips from select genres and categories for giving a browse experience for indexed videos.
- Black-box testing system for doing playability tests for the indexed videos.

- Web-based reporting and task management system to manage work outsourced by Veveo.
- Training and co-ordination related to outsourcing of work to another company.

Center for Development of Advanced Computing (C-DAC), Mumbai (Aug 2005 – May 2006, 10 months)

Worked as a Staff Scientist in Knowledge Based Computer Systems group (A.I. Group)

- Worked in the Case Based Reasoning sub-field of A.I for exploring its applicability in solutions related to AIDS control programs.
- One of the faculties for Operation Systems, Web Technology courses at C-DAC.
- Developed prototypes to test ideas related to the Intrusion Detection System developed there.

Academic Work Experience

Projects done during Masters, Computer Science

- Object shape classification based on haptic data from a robotic hand using machine learning techniques. (python, c++)
- Trajectory generation library used by many research projects in humanoids robotics lab and also implemented for moving a robotic arm. (c++)
- Multi-cast e-blackboard. I led the team of 5 members, designed the protocol and implemented the client. (C, python)
- Novel clustering algorithm using Rapidly Exploring Random Trees (python).
- Bug-tracking and catching using a robotic arm (c++).

Projects done during B Tech, Information Technology

- Distributed wireless sensor system (using Java)
- Adaptive Method to deal with SYN flood attacks (IXP1200 network processor microcode).
- Remote Desktop Access client (using Java).
- Rudimentary Morphological Analyzer (using Java).

Graduate Level Coursework

Fall 2009 (Present) – High Performance Computer Architecture, Masters project. Spring 2009 – Building Humanoid Robots, Machine Learning. Fall 2008 – Database System Concepts and Design, Network Algorithmics, Robotics Intelligence and Planning, Independent Study on Peer to Peer trust systems.