

42 W Oakland Avenue. Apt 6

Columbus-43201

+1 (614) 316 8668

tarunrs@gmail.com

<https://github.com/tarunrs>

Tarun Ronur Sasikumar

Objective

To obtain May 2013 Full-time position in computer science and software engineering

Research Interests

High Performance computing, Data mining and Human Computer Interaction

Education

Fall 2011 – **Ohio State University, Columbus, OH.**

Current MS in Computer Science and Engineering. Current GPA: 3.8/4.0

2004 – 2008 **Vishweswaraiah Technological University, Belgaum, India.**

BE in Computer Science and Engineering. Graduated First Class

Professional Work Experience

2008 – 2011 **Windows System Software Developer, Atlantis Computing, Bangalore.**

Responsible for design, development and maintenance of user profile and application virtualization components in the Atlantis ILIO product stack.

Components developed:

- **vm-agent:** A service used for various remote administrative tasks over TCP/IP.
- **atlantis-fd:** Added support to a filter driver to hook into Windows Registry events.
- **application-recorder:** A suite of applications used to interface with the filter driver to record registry and filesystem changes that occur during Software installation.
- **Inkhead:** A utility used to map iSCSI targets and load the user's profile and applications based on his subscriptions during login time.

All the components were written in C/C++

2011 **User Experience Developer, Atlantis Computing, Bangalore.**

Part of a team of 2 that designed and developed the web interface for Atlantis Dedup. Maintained a library (written upon ExtJS and prototype.js) which extends the current ExtJS components. Was instrumental in making this library the standard web UI toolkit for all the company's products.

Research Projects

Link Prediction - KDD Cup 2012, Prof. Srinivasan Parthasarathy.

Part of a team of 3 that took part in the KDD Cup link prediction challenge in social networks. Wrote multiple scripts to extract semantic and network features from the social graph which helped achieve a weighted average precision of 81%.

Open Source and Personal Projects

2012 **OSU Events**, *In Progress*.

Part of a team of 6 that is developing applications on multiple mobile platforms for events happening at OSU. Designed and developed the crawler and screen scrapping algorithm for extracting events, as well as the webserver for the APIs which are used by the mobile clients. Written in Python and Ruby.

2012 **pSnipSuggest**.

Implemented a system that provides on-the-go, context-aware assistance in the SQL composition process, based on SnipSuggest by Khoussainova et al. Increased the average precision by 21% and improved the response time by 30% compared to the original implementation. Written in Python

2010 - 2011 **jamMm.in**.

Co-founded jamMm.in, an online music collaboration application. Served as the User Experience developer. Wrote the framework for mixing multiple tracks as well as the library to generate waveform images for the tracks. Written in Python and Ruby.

2009 **Movie Showtimes**.

Developed an Android application for Movie showtime/theatre details based on the user's location. Downloaded over 36,000 times in the Android Market. Written in Java

These projects are listed with source code at: <https://github.com/tarunrs>

Activities

2005 – 2008 **Dayananda Sagar College of Engineering**, *icris.net*.

Designed the architecture of the department web-portal as well as wrote some of the backend(PHP and MySQL). Led the team from 2007. During this period the team produced the first campus wide newsletter.

2011 **Ohio State University**, *Open Source Club*, <http://opensource.osu.edu> .

Technical Skills

Languages Experience: C, C++, HTML/CSS, Javascript.

Basic: Java, Python, PHP, Ruby.

Familiar with MapReduce/Hadoop, Memcached, OpenMP and MPI.

Databases MySQL, postgres, SQLite, SQL Server 2008

Other Tools Git, SVN, Weka.

References available on request