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https://github.com/tarunrs

# Tarun Ronur Sasikumar

## Objective

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

### Research Interests

Artificial Intelligence, Data mining and Human Computer Interaction

## Education

2011 – 2013 **Ohio State University**, *Columbus, OH.*
MS in Computer Science and Engineering. GPA: 3.7/4.0

2004 – 2008 **Vishweswaraiah Technological University**, *Belgaum, India.*
BE in Computer Science and Engineering. Graduated First Class

## Professional Work Experience

2013 – Current **Software Developer**, *Epic Systems Corp.*, Verona, Wisconsin.
Resposible for design and development of modules used to document Oncology related information in the EMR. Instrumental in adding support to interface with third-party Radiation Oncology systems.

2008 – 2011 **Windows System Software Developer**, *Atlantis Computing*, Bangalore, India.
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.
- **lnkhead**: 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, India.
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.

## Research Projects

**Realtime Sentiment Analysis of Tweets**, Prof. Srinivasan Parthasarathy.
Implemented a system for real-time analysis of sentiments in tweets related to political events like the Presidential debates. The supervised model achieves a precision of 65% with a response time of less than 200ms on the 1% Twitter firehose.

**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%.

**pSnipSuggest**, Prof. Arnab Nandi.
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 the response time by 30% compared to the original implementation. Written in Python

## Open Source and Personal Projects

2012 **OSU Events**.
Part of a team of 6 that developed 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 used by the mobile clients. Written in Python and Ruby.

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

## Technical Skills

Languages Experience: Cache(MUMPS), Visual Basic, C, Python, HTML/CSS, Javascript
Basic: Pig, Java, C++ .
Familiar with MapReduce/Hadoop, OpenMP, MPI and Cuda.

Tools Git, SVN, Gnuplot, Weka.

References available on request