

VENKATESH MUTHUSAMY

muthusamy.venki@gmail.com | vm34@buffalo.edu
<http://vmuthusamy.github.io/>

OBJECTIVE

To seek a position as Software Engineer to use my skills in the development of rich enterprise applications to increase the company's productivity & customer satisfaction.

PROFESSIONAL EXPERIENCE

Cerner Corporation, Kansas City - Sep 2011 – Present.

Designation: Software Engineer

- Designed, developed and tested Java API for [Ambulatory Workflow](#) resting on HBase.
- Designed and developed crawlers which crawl raw data from Oracle tables to HBase which support Ambulatory workflow.
- Designed mappers and reducers to transform the raw data which was crawled into efficient Apache Thrift models for effective data retrieval associated with a patient on the cloud.
- Designed and developed APIs using thrift, google protocol buffers for map reducing the data and most of the time improving optimizing the design to reduce latency in data access across the cloud..
- Exploring and learning new open source frameworks like Apache Crunch, Oozie and also learning Clojure and Ruby for implementing more robust functional designs every day.
- * Loves writing lots of code every day and even more loves writing code to test the applications i write and benchmark them for optimization and robustness.
- * Involved in deployment with DevOps mentality and monitoring of the deployed applications in productions
- * Recently won a 24 hour Hackathon in our org by building a maven plugin to generate documentation for our process management.

Peakpoint Technologies, Boston - July 2010 – Sep 2011

Designation: Developer/ Integration Engineer

- Development of WinForms based application which prints Driver License ids (States of IL, WI & TN).
- Extensive Agile Development work in FTP, XML based applications in C#, Java and .Net Framework 3.5.
- Developed a WPF Application which renders images for portrait, signature information for driver licenses.

Cognizant Technology Solutions, Chennai-India - May 2006- Jan 2008

Designation: Programmer Analyst

- Extensive development in Win32 Console, Winforms, API application development in Core Java, Visual Studio C#.Net & VB.Net.
- Application development for Windows Mobile 5.0 & PocketPC devices along with Application & Web Development in JSP.

EDUCATION

University at Buffalo, The State University of New York

Master of Science, Computer Science & Engineering, February - 2010 GPA 3.50/4.0

Thiagarajar College of Engineering, Madurai, India, 2006.

Bachelor of Engineering, Electronics and Communication, CGPA 8.47/10,

COMPUTER SKILLS

Programming Languages: Java, C#, Groovy, Ruby, Python, Scala & Clojure(Testing waters still).

Web Technologies & Distributed Applications: ASP, JSF, Struts, Sinatra, Hadoop, Apache Crunch

Interface Description Languages: Apache Thrift, Google Protocol buffers.

RDBMS: Oracle, SQL Server

Distributed Database: HBase, Cassandra (exploring recently)

Miscellaneous: Splunk, IntelliJ, Maven, Jenkins, JIRA, Chef(Recently started incorporating it a lot for our DevOps deployments), Visual Studio, Sublime text, JUnit, JBehave Framework, EasyB, Tomcat, Storm, Ehcache, Google Guava, Crawlers.Raspberry Pi, Twitter Bootstrap, Jenkins, Docker currently exploring Cassandra, Spark and Kafka.

Platforms: UNIX, Linux, Free BSD, Windows 98/ XP/ 2000/Vista/7, Windows Server (2003, 2008 R2), Windows CE, Windows Mobile, WP7, Mac OS X.

Source Control: Git

RELEVANT COURSEWORK

- Database Systems-Datamining & Bioinformatics (600 Level) - Machine Learning
- Operating Systems - Operating Systems Internals - Modern Network Concepts
-Analysis of Algorithms and Design - Computer Security - Applied Cryptography & Computer Security(600 Level)

ACADEMIC PROJECTS

- Biomedical Data Warehouse/OLAP System Design – Fall 2009 **[C# 2008, Datamining, SQL Server 2008]**
- PHI Secure (ASP.Net(Silverlight) Website using VS 2008 initially prototyped by Sketchflow) – Fall 2009 **[C# 2008, MS SQL]**
- FSM Classifier **[Java, Matlab, Datamining]**
- K-Birch Clustering Algorithm(Created a new clustering algorithm based on K Means Classification) – Fall 2009 **[Java]**
- Relational Query Processor – Spring 2009 **[Java]**
- System Call Realization through Containers – Spring 2009 **[C, Unix]**
- Handwritten Digits Classification (Used Bayesian Classification) – Fall 2008 **[Matlab, Machine Learning]**
- Neural Networks - Handwritten Digits Recognition - Fall 2008 **[Java, Machine Learning]**
- Email and Instant Messenger Forensics - Fall 2008
- EM algorithm for Handwritten Digits classification - Fall 2008 **[Matlab]**
- Vulnerability Analysis - Fall 2008 **[Java]**
- Handwritten Digits Recognition - Fall 2008 **[Java, Matlab, Machine Learning]**
- Firewall Simulation - Fall 2008
- File System Server - Spring 2008 **[C++]**
- Implementation of System Calls and Threads - Spring 2008
- Implementation of Simpella P2P Protocol based on Gnutella - Spring 2008

REFERENCES

References will be promptly provided upon request.