Pradeep Kiran Chakkirala

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Education

University at Buffalo, SUNY, USA — 2014 - Present
Master of Science in Computer Science & Engineering — *GPA: 3.38*
Courses: Information Retrieval, Distributed Systems, Operating Systems, Machine Learning

GITAM University, INDIA — 2010 - 2014
Bachelor of Technology in Computer Science & Engineering — *GPA: 8.3/10*
Courses: Algorithms, Data-structures, Object Oriented Programming, Databases

Certifications

IBM certified DB2 Academic Associate

Android Developer Nanodegree - Udacity

Technical Skills

Languages: Java, C#, C++, Groovy, Python, SQL, Pig, Hive
Web: HTML, CSS, AngularJS, PHP, JavaScript, Bootstrap, Jekyll
Platforms: Android, .NET
Tools: JUnit, Git, Vim, Gdb, Gradle, Matlab, LaTeX

Experience

Software Developer Intern, *Dept. of IT, RINL*, India — May 2013 - August 2013

- Real-time implementation experience in the migration of the DNW Department's manual entry process to a computerized system in .NET framework using C .NET and SQL Server 08.
- Led a team of 4 and has tackled all phases of development including UI/UX design and data connection while integrating with existing framework.
- Successfully deployed to the solution that is currently used by the DNW department.

Graduate Projects

Amazon Dynamo | JAVA — Spring 2015
Designed and implemented a replicated key-value storage system on lines of Amazon Dynamo on the Android platform. Supports partitioning, replication and failure handling. Data is stored across multiple android app instances in local SQLite databases.

Synchronization Primitives and System Calls for OS161 | C — Spring 2015
Implemented locks, reader-writer locks, condition variables for synchronization among multiple threads. Designed and Implemented File system calls (open, close, read, write, lseek, dup2) and Process Support (fork, execv, getpid, waitpid) on OS161, an instructional operating system.

Recognition of hand-written digits | Matlab — Fall 2015
Implemented multi-class classification and classified hand-written digits (0-9) from their feature vectors using Neural Network and Logistic regression with about 97% accuracy.

Remote File Sharing System | C++ — Fall 2014
Created a hybrid network application based on client-server and p2p communication for file sharing among multiple systems connected in a network using socket programming.

News Indexer | JAVA — Fall 2014
Developed an application that can parse, tokenize and index a news corpus of 10,000 news articles. Implemented tf-idf and okapi scoring mechanisms to rank retrieved documents. The index is used to retrieve results using Apache Solr.

Personal Projects

Hadoop MapReduce Framework | JAVA, Pig, Hive — January 2016
Calculated the volatility of 2970 stocks in NASDAQ using MapReduce framework and found the top 10 stocks based on their volatility.

Multilingual Search System | JS, PHP, Apache Solr — December 2015
Designed and developed a search system for twitter data in 5 languages served via Apache Solr. Implemented faceted search, sentimental analysis and content tagging in the interface.

Rooted? | Android App on Google Play — May 2014
Developed and published an application, 'Rooted?' which verifies root, busybox installation and provides root information. The app has over 40k downloads and has garnered many positive reviews.