Omkar Nibandhe

● 6 Goethe Street, Binghamton, NY 13905 ● (607)297-0816 ● oniband1@binghamton.edu ● http://www.linkedin.com/in/omkarnibandhe

Summary

Interested in building software by object oriented programming making contributions by research as software development engineer. Determined to complete challenges, motivated for showing reliability with a strong analytical blend and knowledge of algorithms and techniques. Illustrating deep interests in learning recent technologies and problem solving.

Education

Binghamton University, State University of New York	Expected May 2017
Master of Science in Computer Science, EAD start date 06/26/2017	**[GPA: 3.43/4.0]**
University of Pune, India	May 2014
Bachelor of Engineering in Computer Engineering (Passed with Distinction)	**[GPA: 3.60/4.0]**

Technical Skills

Expertise: C, Java, Python, Junit, JavaScript, Oracle PL/SQL
Familiar: Hadoop, MapReduce, Pig, Hive, Hbase, JSON, REST, mongoDB, AWS
Software and OS: Windows, Linux, Unix, Eclipse, IntelliJ, Emacs, PyCharm, Rational Rose, Microsoft Office, Weka
Courses: Design Patterns, System Programming, Operating Systems, Machine Learning, Data Mining, Design Analysis and Algorithms

Awards

Certification: Microsoft Technology Associate Database Administrator (MTA DB), M101P MongoDB for developers (ongoing), AWS Certified Solutions Developer(ongoing).

Hadoop Summit, Europe 2014 (Netherlands)

- Selected from among 350+ abstracts to showcase developing project "Smart Meter Data Analytics using Hadoop". The functionality of BI tool was elaborately explained and appreciated by masses for predictions and building up infrastructure
- Interactions with data scientists from various IT giants like Hortonworks, Yahoo for power of Hadoop and it's applications
- Applied Hadoop and MapReduce to read data of Dublin city for prediction for power consumption pattern with 90% accuracy

Experience

Summer Research Assistant, Binghamton University   Cary Institute of Ecosystem Studies**,** Summer 2016
- Observed, maintained, debugged and improved current iOS app for Lake Observer Project using Xcode
- Analyze real-time data to generate statistical reports, submitting it to PHP Laravel server. iOS development team **(Objective C)**

Project Intern, Smart Meter Data Analysis   zCON Solutions Pvt. Ltd, Pune**,** Fall 2013 – Fall 2014
- Mastered basics of big data, Hadoop, Hive. Setting-up 25 multi-node CDH 2.0 cluster for MapReduce jobs on HDFS on ubuntu
- Design and deploy BI tool on real data from Dublin city's smart meters   **JAVA, Apache Hadoop, HDFS, MapReduce**

Projects

Student Orientation   Binghamton University, Fall 2016
- Adopted Builder design pattern using Interfaces for providing flexibility and extensibility for registering student to courses.
- Designed a multi-thread program to allocate subjects to students using an object pool
- Exploring GitHub version control and java collection. Abstract factory pattern enforcing enums was designed and implemented for student orientation while maintaining backup using cloning and java reflections on trees   **Git, Ant, JAVA**

Smart Mushroom Classification as Poisonous or Edible   Binghamton University, Fall 2016
- Implementation of C4.5 Algorithm, Naïve Bayes Classifier on noisy data set using Machine learning techniques
- Data mining using Weka tool for training decision tree /w pruning and model fitting   **Weka, JAVA, R**

Item Recommendation system   Binghamton University, Spring 2016
- Analyzed existing systems and developed a user-based collaborative filtering recommender to predict the ratings for items
- Predicted rating for item by user on MovieLens 100K dataset by achieving RMSE as low as 0.762   **JAVA, MAHOOT, R**

Non-trivial Word Count Program   Binghamton University, Spring 2016
- Experienced building data-structures storing word-count for optimized retrieval of data in multi-threaded C program
- Creating processes under UNIX by IPC implementations like POSIX's anonymous pipes, FIFO, network programming
- Implementation methods like client-server, socket programming, concurrent server, shared memories were used from Makefile
- Exposure to logging, daemons, dynamic loading API, signals, pthreads using standard C libraries   **C, UNIX, bash**

Mini shell   Binghamton University, Spring 2016
- Designed a shell that runs multiple commands in background with multiple arguments having pipes and redirections
- Coded stop/ kill processes, wake processes to foreground using 'fg' command using pipes, process, exev and dup2   **GDB, C**

Math Calculator   Binghamton University, Fall 2015
- Webpage validates mathematical questions and maintains a scorecard for user. Shows corrected answers
- Perform arithmetic operation on real and imaginary numbers.   **HTML, JAVASCRIPT**

IPD/OPD Software   University of Pune, Fall 2013
- DBMS/RDMBS learning was meticulously used to tackle billing, listing patients/doctors and appointment can be scheduled/rescheduled/cancelled using SQL query by using agile methodology
- Various validations and alpha, beta testing were done giving attention to details   **Oracle 11g, Visual Basic, Adobe Photoshop**