

Curriculum Vitae

Vinay Kumar Boddula

PhD Computer Science, UGA

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Background

In the past, I have worked with IBM for 4 years and 7 months towards Linux booting, Driver building, PowerPC Processor simulation, Manual and Automation testing. Currently I am in 4th year of PhD in Computer Science from University of Georgia and my research interests are **Smarter Planet, Sustainability, Bigdata analytics and Distributed Systems.**

Programming and hands-on skills

- Apache Hadoop MapReduce, Storm.
- Apache Mahout, Weka, RapidMiner
- Hbase, Hive, Solr, SQLServer database, Hbase datastore, NoSQL, Master Data Management
- Java, C, MVC - Grails, Groovy, Perl, Unix/Bash, Python scripting
- Software testing using Agile Methodology.
- Tool usage knowledge of Drupal, SSIS, CMVC, ClearQuest, Rational Team Concert.
- Redhat, Suse, Ubuntu, Fedora Linux and Windows operating systems.

Education:

Philosophy of Doctorate (Ph.D), *Ongoing expected 2016*

Major: **Computer Science**

University of Georgia, Athens, Georgia, USA

GPA: 3.66/4

Master of Science (M.S.), *Dec 2006*

Major: **Advanced Embedded System Design**

International Institute of Information Technology, Pune, India,

GPA: 3.5/4

Bachelor of Technology (B.Tech), *May 2005*

Major: **Electronics & Communication Engineering**

Vaagdevi College of Engineering, Warangal, India

Equivalent GPA: 3.62/4 (as calculated from World Educational Service)

Publications:

- Abhishek Kothari, **Vinay Boddula**, Lakshmi Ramaswamy, Neda Abdolhassani (2014) DQS-Cloud: A Data Quality-Aware Autonomic Cloud for Sensor Services. *Proceedings of the 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing*

Ongoing and past Research Projects:

- Optimal sensor placement for enhanced inland water sustainability. (August 2014 – Ongoing)
NSF Award Abstract #1442672

- Social media monitoring for inland water sustainability. (August 2014 – Ongoing)
NSF Award Abstract #1442672
- Energy and Information management in Wireless Sensor Network(August 2014 – Ongoing)
- Automatic generation of tags for StackOverflow question bodies.
- Hadoop on Highly Distributed Environment.
- Financial Market Analysis (using **Hadoop's MapReduce**).
- RDF datastore in **Hbase**.
- Mambo -- PowerPC Simulation, sponsored by **IBM Austin Research Lab**.
- Research on Automatic Traffic Monitoring and controlling system using Digital Image Processing, Optical Flow, Camera calibration sponsored by **Tata Institute of Fundamental Research**.
- Automation of Cafeteria and Library(Rabbit 3000 microprocessor), sponsored by **International Institute of Information Technology**.

Work History and Professional Experience:

1. Synovus Financial Corp, Georgia

June 2012 to July 2012

Position: **Software Intern**

Location: Columbus, Georgia

URL: <http://www.synovus.com>

Project undertaken:

- **Title: Implementing Master Data Management**

(June 12 – July 2011)

Team Size: 2

Client: Internal Product.

Description:

This project involved implementation of Master Data management for Synovus. The Master data implemented were Customers, Employees, Products and Banks. Myself and another intern used Microsoft's Master Data Services 2012 which comes along with SQLServer2012 to implement master data management.

- ✓ Interviewing the internal customers and DBA's for the current working of banks process.
- ✓ Understanding several databases and building up whole master data solution.

2. IBM India Pvt. Ltd. Bangalore, India

Dec 2006 to July 2011

Position: **Software Engineer**

Location: Bangalore, India

URL: <http://www.ibm.com>

Projects undertaken:

- **Title: Functional Verification Test of Server Management Tool.**

(April 09 – July 2011)

Team Size: 10

Client: Internal Product.

Description:

This project involved functional and performance testing of IBM's Server management tool "SDMC – System Director Management Console" which is developed in Java. I am

responsible for functional and regression testing of On Demand capabilities, Shared Processor Pool, Virtualization technology, Memory Utilization, Migration etc. The performance aspects are related to I/O, Memory, Processor usage and timing aspects.

- ✓ Participate in test planning and tesplan review and progress reporting process.
- ✓ Look back at the defects logged by clients over past years and ensure that the new release is bug free from earlier reported issues.
- ✓ Developed and executed testcases.
- ✓ Report performance issues.

• **Title: Linux Driver Building automation for multiple kernels. (April 08 – March 09)**

Team Size: 1

Client: Broadcom and Qlogic.

Description:

This project involved development of scripts which would automate the driver building and installation process in multi-kernel, multi- operating system scenario thus reducing the burden of manually driver building for every new kernel.

- ✓ I wrote Perl and Shell scripts to automate the driver building and installation process for various kernels of Red Hat 4, Red Hat 5, Suse 10 and Suse 11 platforms
- ✓ Automated the driver verification tests, also used to perform manual tests.
- ✓ Interacted with clients viz qlogic and broadcom to understand the requirement.

• **Title: Simulation of IBM Power Processor and Booting Linux on it. (Dec 06 – March08)**

Team Size: 2

Client: IBM Austin Research Lab.

Description:

This project was of two phases. Phase I involved, defect fixing of simulated processors code. Phase II involved, booting of Linux on top of the simulated software stack.

- ✓ Tested the existing code and fixed over 500 defects in span of 3 months.
- ✓ Regression testing of the fix so as to ensure that new code doesn't break the existing code.
- ✓ Built the linux image which was then booted on the simulated environment.
- ✓ Fixed defects in the "register populating algorithm" which allowed linux to boot.

Personal Information

Visa Status

F-1