

Abhishek Varshney

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Profile Summary

- Around 3 years of learning experience with leading software product companies involving:
 - Design and development of data driven solutions for management/quality/supportability of enterprise products.
 - Development and usage of a variety of open-source tools, especially databases.
- Ability to quickly prototype ideas.
- Toolkit (not limited to): Python, C, Java, JNI, PHP, Gremlin/Groovy, Linux, Python Flask, NLTK, Xapian, Neo4J, Oracle PL/SQL, MySQL, Git, Cassandra, Vim, Eclipse, TITAN, Tinkerpop, Ubuntu, D3.js, bootstrap, Python Django, Nginx, LAMP, Informatica Powercenter, Pentaho BI Suite etc.

Work experience

NetApp India Pvt Ltd

August 2013 — Present

Member Technical Staff II

- Working as part of the office of the CTO with the Advanced Technology Group (ATG), which focuses on engaging and evaluating emerging technologies, and trends that may affect the storage industry and the company's long-term business.

Projects:

- **Neuro (Sep '14 – Till Date)** : Neuro is an effort to present the components of the storage system as a graph data model to the support engineers for reducing Time To Solution Provided for cases. I worked on the evaluation, design and implementation of Graph DBs with the schema to store the instantiated model and present a timeline view of the state of storage system in the PoC. The responsibilities included evaluation of neo4j and TITAN with tinkerpops stack for functionality/robustness/scalability. The project is now approved for production and is seen as the flagship product in the supportability charter.
- **Budweiser (Apr '14 – Aug '14)** : Budweiser is an internal tool to suggest possible duplicates to a newly found bug and help reduce the number of duplicate bugs filed. It involves feature extraction from bugs, domain specific refinement and then indexing them to Xapian, which can be then queried for duplicate bugs. I was responsible for taking the idea to production. The system has been deployed since June 2014 and correctly identifies about 35% of total duplicate bugs filed on an average. It receives around 1200 requests from around 90 unique users on an average per week.
- **Samosa (Oct '13 – Mar '14)**: Investigated and evaluated the challenges in onsite analytics for management products including collection, extraction and storage of data. Also prototyped an extensible and modular PoC for efficient collection, extraction, storage and presentation of data for analytics apps that can be deployed onsite. Worked on Cassandra, Python Flask, d3.js etc.
- **FTalk (Hackathon)**: Developed a jabber based system where storage or other machines can be connected through a chat window. These machines are represented by chat bots with additional features like persistent connections, job scheduling etc. Integrated NLP to intelligently comprehend commands. The objective was to ease the job of storage/system admins and shield them from multiple complex CLI commands.
- **FShout (Hackathon)**: Demonstrated how vibrations cause disk latencies to increase significantly. Also implemented a mechanism to automatically initiate a take over amongst two HA nodes when high levels of vibrations are observed in one. The objective was to show the effect of non-systemic variations on the performance of the system.

Other Significant Achievements:

- Received CTO award for project Budweiser.
- Placed as 2nd Runners-up in NetApp wide hackathon in 2014 for project FTalk.
- Placed as 1st Runners-up in NetApp wide Build Your Data Centre competition in 2013.

Other Responsibilities:

- Mentored a couple of interns on various projects.
- Lab team volunteer to manage inventories like VMs, servers, filers etc.
- Volunteer and poster presentation at NetApp University Day 2014 and 2015.

Oracle India Pvt Ltd

December 2012 — July 2013

Member Technical Staff

- Contributed towards Windows platform specific development of Oracle's Database.
- Worked on DNFS (Oracle's NFS Clinet) and RDMA modules, along with fixing issues and bugs.

NetApp India Pvt Ltd

July 2012 — December 2012

Intern

- Underwent a six month internship as a part of curriculum for graduate degree program from BITS Pilani.
- Worked on a project to investigate the in-memory database storage solution. The project involved studying the code-base of various relational and NoSQL databases like MySQL, SQLite, Cassandra, RIAK DB etc to identify their interfaces for storage engine and coming up with a common storage engine (versioned key-value store) for all with individual adapters.
- The objective was to develop an in-memory data-store which can handle both transactional and analytical queries in an efficient way. The PoC was successfully demonstrated with MySQL and Cassandra.

Accenture Services Pvt Ltd

June 2010 — December 2010

Associate Software Engineer

- Worked for an Insurance major of the US on ETL process using Informatica Powercenter for an Enterprise Datawarehouse project.

Education

ME in Software Systems

January 2011 — December 2012

BITS Pilani

CGPA: 9.03/10

Academic Projects:

- Implementation of a pre-forking model for a web server using UNIX Socket Programming.
- Study, design and implementation of the Software Architecture of a highly available social networking website using HAproxy load balancer, LAMP, Memcached, GeoDNS and Database Replication.
- Flood mitigation system using Pervasive Computing techniques. Tools and platforms used include LAMP, Image Processing in MATLAB and Android AppInventor.
- Design and implementation of a Data Warehouse for a Telecom Project using Informatica Power Center, Pentaho BI Suite and Oracle 11g.

BTech in Mechanical Engineering

August 2006 — May 2010

Aligarh Muslim University

CPI: 8.227/10

- Developed a Personal Project of an online student portal of the college as www.thetechnocratz.com using PHP

and managing database on flat files and mySQL. This website enjoyed the privilege of the most visited college website for 3 years in a row.

- Developed an algorithm of a product review search engine for Amazon.com and won first prize for it in a nation wide competition. The objective was to develop an algorithm that could use any of the leading search engines to filter out product reviews related to the search and provide one view for the same to the user.

Publications

- Praveen Ranjan Srivastava, Abhishek Varshney, Priyanka Nama, and Xin-She Yang. 2012. Software test effort estimation: a model based on cuckoo search. *Int. J. Bio-Inspired Comput.* 4, 5 (October 2012), 278-285.
- Varshney, Abhishek, and Mohammed Abdul Qadeer. "Mobile Peer to Peer Spontaneous and Real-Time Social Networking." In *Advances in Computing and Communications*, pp. 442-451. Springer Berlin Heidelberg, 2011.