

Tushar Bhushan

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Education:

University of Illinois

Bachelor of Science in Electrical Engineering; Minor in Computer Science

Urbana-Champaign, IL
August 2011 - August 2013

Manipal University, ICAS

Bachelor of Science in Electrical Engineering

Dean's List: Fall 2009, Spring 2010, Fall 2010 and Spring 2011

Manipal, India
August 2009 - June 2011

Skills:

Languages: C, C++, Javascript, HTML 4.0/5.0, CSS, Python, Node.js

Frameworks: Hadoop, Bootstrap, express.js

Databases: MySQL, MongoDB

Concepts: Algorithms, Data Structures, Networking, OSI Model, Operating Systems, User-Interface Design, Bash Scripting, Sockets Programming

Work Experience:

Yahoo :

Service Engineer – Sunnyvale, CA

December 2013 – Present

- Identify the priority and criticality of incoming alerts and prioritize appropriately
- Diagnose & repair issues using critical knowledge of Apache, UNIX processes, MySQL and related technologies within the OSI stack.
- Work with new technologies such as HIVE, Oozie, Hadoop, HBase etc.,

Project: Visualizing Hadoop performance metrics

- Developed from the ground up, a framework to visualize the key performance metrics of several pipelines running at Yahoo! on the Hadoop grid
- Developed a backend server using node.js/express.js and worked with jade, bootstrap, Highcharts/d3.js, JS/HTML/CSS to implement the final product
- Wrote unit tests for each of the components listed above using the mocha/chai testing framework.

Yahoo! :

Technical Intern – Champaign, IL

July 2013 – August 2013

- Designed, implemented, tested, and deployed new data processing algorithms according to requirements specifications
- Learned the design, implementation and performance of file-systems, content delivery and large-scale distributed systems
- Worked with NFS, HTTP, TCP/IP as well as the entire Hadoop tools ecosystem (PIG, HDFS, HBASE, etc.)

Project Experience:

Tabify

- Hackday idea to create a Spotify app that would provide synced guitar tabs to help play along with your favorite songs.

Implementing TCP over UDP

- Implemented a Sliding Window Protocol and simulated TCP over a UDP connection (which occasionally dropped packets) taking into consideration congestion control as well, in C.

Distributed Systems (MapReduce/Hadoop)

- Designed and Implemented a working MapReduce implementation, with failure detection, DFS and creating a distributed grep protocol to aid in testing
- Used the implementation to write custom MapReduce code to solve a word count problem

Accomplishments:

- Finalist at Yahoo! corporate hackathon – Project tweezer