Siddharth B. Bhayani

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EDUCATION:

Master of Science, Computer Science GPA:3.62
University of Southern California, Los Angeles, CA May 2016
Courses: Analysis of Algorithms, Database Systems, Foundations of AI, Operating Systems, Web Technologies, Applied Natural Language Processing.

Bachelors of Engineering, Information Technology GPA:3.92
University of Mumbai, Mumbai, India July 2014

TECHNICAL SKILLS:

Programming & Scripting Languages : Java, C, C++, PHP, Python, Android Programming, Javascript (jQuery | AngularJS), HTML5, CSS3, Servlets, JSP
Software Tools & Database Technologies : AWS Technologies (SNS | Dynamo DB | S3), Git, BitBucket, JIRA, Maven, Eclipse IDE, Netbeans IDE, MS SQL, Oracle, MYSQL workbench, Microsoft Access
Operating Systems : Ubuntu, Windows

WORK EXPERIENCE:

Amazon - Kindle : Software Development Engineer Intern **May'15 - Aug'15**

- Designed and implemented support for Rich Push Notifications for Kindle Android Application to increase and improve user experience.
- Developed a web console through which one can design and send different type of Rich Notifications.
- Implemented support for different Rich Notification on Android Application.
- Technologies used: AWS Technologies (SNS, Dynamo DB, S3), Android SDK, Bootstrap, Angular JS, HTML5, Android SDK, Spring framework.

PROJECTS:

eBay Item Search : Web and Android Application **Mar'15 - Apr'15**

- Developed a web and android application that allows users to search, view and share details of the items on sale at eBay.
- Deployed Server for processing the user's request on AWS Elastic Beanstalk cloud.
- Technologies used: Android SDK, Facebook SDK, PHP, JQuery, Bootstrap, HTML5, AWS Elastic Beanstalk cloud, eBay API.

Operating System : Kernel Implementation **Feb'15 - May'15**

- Implemented three modules of a monolithic UNIX based non-preemptive Operating System (Weenix).
- Developed Process sub-system by creating and implementing system calls for creation, forking, execution, locking, scheduling, exiting and management of kernel-processes and kernel-threads.
- Integrated Virtual File System to provide interface between kernel and actual file systems by providing system call implementations for file system operations.
- Implemented Virtual Memory Management which facilitates kernel to manage virtual address space for both user and kernel processes.

Logic Inference System **Nov'14**

- Designed a Logic Inference System by constructing a Knowledge Base from the input sentences representing them in First Order Logic.
- Implemented Backward Chaining Algorithm over the Knowledge Base to infer the truthfulness of the given query and output accordingly.
- Technology used: Java.

Distributed Document Clustering using Semantics (Senior Project) **May'14**

- Developed a document clustering method using Hadoop and MapReduce by implementing K-Means and Bisecting K-Means Algorithm that improved the overall efficiency of the system.
- Increased the quality and accuracy of clusters through adding semantics by integrating the Stanford POS Tagger with Clustering System.
- Integrated four machines and executed the Clustering Systems to measure the efficiency and accuracy improvement for both the algorithms.