

## Siddharth B. Bhayani

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### EDUCATION:

*Master of Science, Computer Science*

University of Southern California, Los Angeles, CA

GPA:3.62

May 2016

*Courses:* Analysis of Algorithms, Database Systems, Foundations of AI, Operating Systems, Web Technologies.

*Bachelors of Engineering, Information Technology*

University of Mumbai, Mumbai, India

GPA:3.92

July 2014

### TECHNICAL SKILLS:

**Programming & Scripting Languages :** Java , C, C++, SQL, HTML5, CSS3, JavaScript, Servlets, JSP, PHP, AJAX, JQuery, Android Programming.

**Database Technologies & Software Tools:** MS SQL, Oracle, MYSQL workbench, Eclipse IDE, Netbeans IDE, Microsoft Access

**Operating Systems :** Ubuntu, Windows

### WORK EXPERIENCE:

**Amazon .com : 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:

**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.

**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.

**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.