

Siddharth B. Bhayani

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EDUCATION:

Master of Science, Computer Science

University of Southern California, Los Angeles, CA

GPA:3.68

May 2016

Bachelors of Engineering, Information Technology

University of Mumbai, Mumbai, India

GPA:3.92

July 2014

TECHNICAL SKILLS:

Programming & Scripting Languages : Java, Python, Android Programming, C, C++, PHP, 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:

Automatic Trending Tweet Summarizer

Nov'15

- Collected, cleaned and pre-processed tweets for different trending topics & hashtags and summarized them by implementing an approach using LESK Algorithm & WordNet.
- Evaluated the performance using Cosine Similarity & Semantic Similarity and found interesting inferences.
- Technologies used: Python, Twitter-API, NLTK Toolkit, WordNet.

Eco-Smart Rider : Android Application

Nov'15

- Developed an android application that automatically books an uber taking into consideration the time, type of ride and maximum amount user will pay thereby reducing cost for users.
- Technologies used: Android SDK, Uber API

Email Spam Detection & Sentiment Analysis

Sept'15

- Developed a general multi-purpose, multi-class Naïve Bayes Classifier to perform spam detection on a corpus of 25,000 raw email messages and sentiment analysis on 22,000 imdb movie reviews.
- Developed using Python and used 'bag-of-words' technique for feature representation.

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.

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 & accuracy improvement for both the algorithms.