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NIKHIL LOHIA

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EDUCATION

Master of Computer Science | ARIZONA STATE UNIVERSITY   **(GPA : 3.44 / 4) Expected May 2018**
Relevant Courses : Foundations of Algorithms, Multimedia and Web Databases, Software Design, Distributed Database Systems, Data Visualisation

Bachelor of Technology, Computer Science & Engineering | HBTI Kanpur   **(GPA : 3.6 / 4) May 2013**

LANGUAGES & TECHNOLOGIES

Languages:	JAVA, C, HTML, Python, JAVASCRIPT, XML, SQL, PIG
Platforms and Frameworks:	HADOOP, GIT, Maven, Perforce, Android SDK, HBASE, HIVE, BASH
Software:	IntelliJ, Eclipse, Adobe Photoshop, Windows, Linux and MAC OS, MS Office Suite

EMPLOYMENT

Software Developer   **MOBILEUM**   **April 2015 – June 2016**
Roaming Analytics (MAP-REDUCE | PIG | HADOOP | HIVE | OOZIE | HBASE)
- Implemented a functionality to determine the payment plan of a subscriber (prepaid/post-paid).
- Contributed a feature to determine the Roaming Pack of a subscriber for a particular trip in a particular country and created a new OOZIE task to automate the process.
- Collaborated to standardize the Quickbuild server (PM Ease) to effectively manage the build procedure.
- Determined the persona information, trip weekend information, travel stage and DND status for a subscriber.
- Created a generic range reader, that provides an abstract interface to read all the associated values with a particular range of primitives.

Software Engineer   **SAMSUNG RESEARCH INSTITUTE**   **June 2013 – Feb 2015**
Android Application Framework (ANDROID SDK | PERFORCE | OPENGROK | ECLIPSE ADT)
- Programmed on Pen Window feature implemented in SAMSUNG flagship devices at HQ, South Korea.
- Remodelled the HELP GUI of the Multi-window feature in Samsung mobiles.
- Resolved and rectified critical issues related to the application framework module reported during the product development lifecycle in various smartphones, tablets and wearable devices.
- Boosted the performance of low end phones by tweaking app entry animations, checking for memory leaks and reducing the frame refresh rate.

Internships
FRESENIUS KABI : Developed an inventory management system for employee assets using SQL, Publisher and SHAREPOINT.
VELOCITY SOFTWARE SOLUTIONS : Created WordPress templates in Photoshop catering to the needs of the clients.

PROJECTS

- **EXCEL RECORD READER :** Created a map reduce input format that can read excel files using Hadoop.
  Git Hub link: https://github.com/nikoo28/ExcelRecordReader
- **WEBSITE :** Developed and designed a website which presents clear and lucid solutions to some of the most intricate problems using SQL, JAVASCRIPT, WORDPRESS, HTML. Link : http://www.studyalgorithms.com
- **ANDROID APPLICATION :** Developed and designed an android application with over 40 thousand downloads for 'Study Algorithms'. Technologies used were OPENSHIFT, ANDROID ADT and JAVA. Link : http://bit.ly/1u6TXez
- **VIDEO SIMILARITY AND INDEXING TOOL :** Developed an application that computes the similarity between different videos, based on color, SIFT features and motion, and reduces dimensionality of the vector space using PCA and K-means clustering.
- **CONTRAST IMPROVEMENT OF COLORED IMAGES:** Implemented several algorithmic changes for improvement of image enhancement using histogram equalization in the space of colored images.
- **SOCIAL ROBOT :** A primitive robot face with manually controlled expressions for human interaction.
- **PROFILE MANAGER :** Created a student database for colleges which works upon face recognition system. The project used OpenCV API and the concept of Eigen faces to train, update and predict a face.