1226, W. Adams Blvd., #1D
Los Angeles CA 90007
+1 (213) 952-4075

KRISHNA SAI RUDRA DEV TALLAPRAGADA

ktallapr@usc.edu
https://linkedin.com/in/tallarudra/
http://www.tallarudra.com

EDUCATION

Los Angeles, CA	University of Southern California	August 2016 – May 2018

- M.S. in Computer Science, **GPA: 3.82**
- *Coursework*: Algorithms; Artificial Intelligence; Web Technologies; Information Retrieval; Natural Language Processing

Hyderabad, India	Osmania University	August 2012 – May 2016

- B.E. in Computer Science, Dean's List, **GPA: 3.9**
- *Coursework*: Software Engineering; Databases; Operating Systems; Data Structures; OOPS Concepts; Data Mining

TECHNICAL SKILLS

- **Programming:** C, C++, Python, Java, C#, VB.Net
- **Web Technologies:** HTML, JavaScript, CSS, XML, PHP, Ajax, JQuery, BootStrap, JSON
- **Data/Databases:** SQL, PL/SQL, MongoDB, Hadoop
- **IDE's, Libraries and Tools:** Visual Studio, Eclipse, AWS, Google Cloud, Keras, TensorFlow, OpenCV

WORK EXPERIENCE

Software Developer Intern	Dromebox Labs	Summer 2017

- Worked with the AR team on real-time data acquisition module and developed a framework to transfer compressed data from 5 sensors over TCP to the server to visualize data points in Unity.
- Reduced time by 40% to acquire data parallelly from different sensors in real-time using multi-threading.
- Developed a data pipeline to regulate and synchronize the packets acquired from sources with varying frame-rates.

Research Assistant	Integrated Media Systems Center, USC	Spring 2017

- Worked in a team of 3 to redesign the existing algorithm and integrated to the "MediaQ" web application framework.
- Improved accuracy of the Scene Location Determination module by developing a view triangulation algorithm.

Advisory Analyst Intern	Deloitte India, Offices of U.S	Winter 2015

- Worked in AERS division with the Risk Analytics team and performed data analytic operations on data belonging to clients of Life Sciences and Health Care industry.
- Performed data wrangling and checked for validity and completeness of Journal Entry Transactions using ACL Analytics.

PROJECTS

- **Inverted Index Using a Hadoop Cluster** (2017): Implemented Map-Reduce algorithm to construct an Inverted index for a corpus of 3000 English books using Hadoop cluster. *Java, Hadoop, Google Cloud*

- **Web Crawler for New York Times Website** (2017): Crawled the New York Times website to gather the meta data from the websites and performed analysis on the Fetch success rates and outgoing URLs. *Java, Crawler4j*

- **Facebook Search Implementation using Responsive Website and Android App** (2017): Developed a responsive webpage and an Android app hosted using AWS that allows the users to specify the query terms and the type of query including users, pages, places, events. Using PHP, sent server request to Facebook Graph API, and used the Google Geocoding API for location based queries. *AngularJS, JQuery, PHP, JavaScript, HTML, AWS*

- **Image Retrieval for Localization using Bag of Words model** (2016): Led a team of 3 to develop an application to determine longitude, latitude of the place where a given query image was captured using Tokyo247 dataset containing over 40,000 images. Reduced execution time by up to 80% by implementing BOW model instead of brute force comparison of dataset images. *C++, OpenCV, Visual Studio 2010*

- **File Sharing Website with End-User Hash Verification** (2016): Developed a website that enables two end users to share pictures privately and access them as required using a hash value generated based on the pair's email ids with backend storage using MongoDB. *HTML, JavaScript, PHP, MongoDB*

- **Examination Scheduling Software** (2014): GUI based application to schedule exams based on multiple criteria with multiple ways to enter data into the database either through Excel for easy backend access or MySQL for more data definition and data manipulation options. *Python, MySQL, Xlrd, Tkinter, Excel*.

AWARDS

- **Performance Award(2016) , Deloitte:** Awarded for providing excellent client service excellence.
- **Third Prize, IIT-BHU(2016):** Awarded All India 3rd prize for Python Programming Contest out of over 300 teams.