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# KRISHNA SAI RUDRA DEV TALLAPRAGADA

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## WORK EXPERIENCE

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|--|---|--------------------|
| <b>Software Developer Intern</b>   | <b>Dromebox Labs</b>                        | <b>Summer 2017</b> |
| <ul style="list-style-type: none"><li>Developed module to transfer compressed data from 5 sensors over TCP to visualize data points in Unity.</li><li>Reduced time by 40% to acquire data parallelly from different sensors in real-time using multi-threading.</li></ul>    |   |                    |
| <b>Research Assistant</b>  | <b>Integrated Media Systems Center, USC</b> | <b>Spring 2017</b> |
| <ul style="list-style-type: none"><li>Improved accuracy of the Scene Location Determination module by developing view triangulation algorithm.</li><li>Worked in a team of 2 to redesign the existing algorithm and integrate to the framework of web application.</li></ul> |   |                    |
| <b>Advisory Analyst Intern</b>   | <b>Deloitte India, Offices of U.S</b>       | <b>Winter 2015</b> |
| <ul style="list-style-type: none"><li>Performed Data Analytic operations on data belonging to clients of Life Sciences and Health Care industry.</li><li>Performed data wrangling and checked for validity and completeness of Client Journal Entry Transactions.</li></ul>  |   |                    |

## EDUCATION

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|---|--|-------------------------------|
| <b>Los Angeles, CA</b>  | <b>University of Southern California</b> | <b>August 2016 – May 2018</b> |
| <ul style="list-style-type: none"><li>M.S. in Computer Science, <b>GPA: 3.82</b></li><li><i>Coursework:</i> Algorithms; Artificial Intelligence; Web Tech; Information Retrieval; Natural Language Processing</li></ul> |  |                               |
| <b>Hyderabad, India</b>   | <b>Osmania University</b>                | <b>August 2012 – May 2016</b> |
| <ul style="list-style-type: none"><li>B.E. in Computer Science, Dean's List, <b>GPA: 3.9</b></li><li><i>Undergraduate Coursework:</i> Software Engineering; Databases; Operating Systems; Data Structures.</li></ul>    |  |                               |

## 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 including the type of content 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*

## AWARDS

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

## SKILLS

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