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#### **EDUCATION**

University of California, Irvine

MS in Computer Science Expected March 2017 | Irvine, CA GPA: 3.86/4

## Indian Institute of Technology, Hyderabad

B.Tech in Computer Science 2009-2013 | Hyderabad, India GPA: 8.56 /10

## **SKILLS**

#### PROGRAMMING:

- $\bullet$  Python  $\bullet$  C  $\bullet$  C++
- C# Java Matlab

#### **TECHNOLOGIES:**

- MapReduce Docker Cassandra
- AWS RabbitMq TensorFlow
- Celery Search Engine Lucene

#### **COURSEWORK**

#### GRADUATE

- Distributed Systems
- Distributed Transaction Systems
- Machine Learning
- Optimization
- Bayes Data Analysis
- Image Understanding

#### Undergraduate

- Database Management Systems
- Operating Systems
- Networks
- Mathematics Behind Machine Learning
- Data Structure and Algorithms
- Algorithms
- Advanced Algorithms
- Big Data

## **EXPERIENCE**

#### ACUSENSE

Full Stack Engineer Intern

June 2016 - Sep 2016 | Palo Alto, CA

Acusense is a start up that provides advanced computer vision to help the enterprises search and discover precise multimedia in real time.

- Designed the full stack of the product using RabbitMQ, Celery, Cassandra, Twitter API, Instagram API.
- Created a Machine learning and NLP based tool to correlate images and videos to text.
- Automated the complete deployment pipeline, scaling and load balancing using **Dockers**, and **AWS ECS**.

#### **MICROSOFT**

Software Engineer | Cortana and Bing Search June 2013 – June 2015 | Hyderabad, India

- Learned about different components of Search Stack like Query Analysis, Ranking Algorithms, Local Entity Results .
- Created the Personalized Restaurant Recommendation experience on Cortana.
- Designed and implemented the **Travel Planner** experience powering trip information like flight details, currency conversion rate for foreign trips, weather forecasts, handling notifications for delayed flights, news and weather alerts.

#### **AMAZON**

Software Engineering Intern May 2012 – July 2012 | Hyderabad, India

#### **THESIS**

### DEEP LEARNING ARCHITECTURES IN CHEMOINFORMATICS

Prof. Pierre Baldi | Mar 2016 - Present | UCI, CA

Creating a deep network architecture in **TensorFlow** to predict the aqueous solubility of molecule. Model consists of an ensemble of **Recursive Neural Networks** associated with all possible vertex-centered acyclic orientations of the molecular graph.

## **PROJECTS**

# MuBase, Database Management System

Oct 2011 – Nov 2011 | https://github.com/akshaybetala/Mubase Implemented a mini Database Management System in C++ with buffer pool manager, storage mechanisms, disk management system and relation manager along with B+ tree indexing.

## **COLLABORATIVE EDITOR**

Mar 2016 – June 2016 | https://github.com/akshaybetala/CollabEdit Created an online collaborative editing tool in **Python** and **JavaScript**. Used a partially persistent data structure in the client side to sync across multiple clients.

#### TEXT-CENTRIC DATA MANAGEMENT SYSTEM

Mar 2016 – June 2016 | https://github.com/TextDB/textdb
Designed and created a text centric database over Lucene in Java. Created operators like Keyword Search, Phrase search with the support of Spans.