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EDUCATION

Los Angeles, CA **University of Southern California** **August 2018 – May 2020**

- Master of Science in Computer Science - GPA: 3.85/4
- Graduate Coursework: Analysis of Algorithms, Foundations of Artificial Intelligence, Applied Natural Language Processing, Machine Learning

Jamshedpur, India **National Institute of Technology** **August 2012 - May 2016**

- B.Tech (Hons.) in Computer Science - GPA: 8.75/10 (Topped in two semesters, overall rank - top 10 in CS department)
- Undergraduate Coursework (selected): Computer Programming, Data Structures, Operating Systems, Database Management System, Object Oriented System Design, Software Engineering

EMPLOYMENT

Applications Developer **Oracle Corporation** **July 2016 – July 2018**
Cloud Engineering, India

- Developed feature to publish announcements using Apache Kafka and Zookeeper. Created UI pages for the same
- Exposed web services on the backend. Optimized the load time via caching
- Redesigned database schemas and built DBboot functionality with Liquibase api, which reduced the run time errors and debugging time by over 90% during cloud orchestration
- Improved code coverage by 50%, leveraged Mockito, JUnit and QUnit frameworks for unit testing

Software Engineer Intern, India **ShoreTel, Inc.** **May 2015 - August 2015**

- Research available open source video conferencing systems and integrate into ShoreTel PBX (Technology - Java and C)
- Designed and developed custom video conferencing modules on top of media servers

PROJECTS

Parts of Speech Tagging (Python, TensorFlow) **April 2019 - May 2019**

- Designed a sequence to sequence model for predicting the POS tag for each word in a sentence for any language.
- Obtained efficient results on test data with accuracy over 95% and stood in top 95th percentile in a class of 190.
- Link to the model in TA/Co-instructor's site - http://sami.haija.org/cs544/top-performers/muddarla.pdf

Hotel Review Sentiment Analysis (Python) **January 2019 - February 2019**

- Performed sentiment analysis on hotel reviews to classify them into truthful or deceptive and positive or negative
- Implemented Naïve Bayes classifier with smoothing techniques without using any library from scratch in python
- Obtained efficient results on test data with F1 score over 0.85

Applicant Allocation System (Python) **November 2018 - December 2018**

- Built a system to assign applicants to organizations optimally, subject to constraints
- Came up with an optimized max-max algorithm with pruning to maximize the relative efficiencies of organizations
- Leveraged Zobrist hashing technique to improve the performance of the system

Gene Expression Data Clustering (Matlab; Team of 3) **January 2016 - May 2016**

- Research project to experiment various objective functions to cluster gene data using NSGA-II algorithm
- Found true clustering with an accuracy of over 85%

Hospitality Management System (Java, JavaScript, SQL; Team of 5) **October 2015 - December 2015**

- Prototyped a web application to manage information about accommodation of guests during technical fest

SKILLS

- C; Java; Python; Scala; JavaScript; TensorFlow; SQL; MATLAB; Spring; Web services; HTML; CSS; NodeJS; React;
- Version control – Git; Application server – Weblogic; Familiar with – Jenkins; Docker; Kubernetes
- Methodologies – Agile, Scrum

ADDITIONAL EXPERIENCE AND AWARDS

- Led Hospitality team for **OJASS'16,** annual techno-management fest of NIT Jamshedpur. (2015)
- Determined and implemented new predictive models of theoretical performance of financial instruments. Ranked **60th** position in **India** region at **WorldQuant Websim Summer Training** contest. (Summer 2014)