

ASHUTOSH PAREKH

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EDUCATION

- University of California, San Diego, USA** 2017-2018
M.S. in Computer Science - CGPA: **3.71/4.00**
Coursework: AI, Machine Learning, Recommender Systems, Neural Networks, Networked Systems, Algorithms
- D.J. Sanghvi College of Engineering, University of Mumbai, India** 2012 - 2016
B.E. in Information Technology - CGPA: **9.25/10.00**

PROFESSIONAL EXPERIENCE

- Software Engineer SMTS, Salesforce.com Inc.** Feb 2019 - present
San Francisco, CA
- Work with deploying the HBase database on the public cloud using Kubernetes. Wrote the initial deployment code and resolved the various OS process and DNS issues to make it work in cloud environments.
 - Create scripts and process management code and package it using Docker along with the security related changes.
 - Work on the algorithms for auto-scaling components and its implementation to save on the overall cost-to-serve.
 - Responsible for creating a set of test cases, documentation for knowledge articles and ensuring the continuous delivery of a highly scalable and consistent database to be served via the public cloud.
- Software Engineer, JPMorgan Chase & Co.** Jul 2016 - Aug 2017
Corporate Technology, Mumbai, India
- Developed applications in Java Spring and Hibernate using a micro-services architecture and deployed on the private cloud. This cloud adoption helped reduce infrastructure costs by around 60%. Implemented session replication, authentication, load balancing and Log aggregation and analytics service.
 - Honored as one of the *top three* overall performers out of 180 Analysts from India.

PATENTS

Container orchestration system (COS) services discovery across multiple COS clusters based on COS cluster domain name system - US11019023B1 - Date Issued: 2021-05-25

TECHNICAL SKILLS

- **Languages and Frameworks:** C, C++ (STL), C#, Java, Python, Go, Kubernetes, Docker
- **Web Development:** Python Django, HTML, CSS, JavaScript, PHP, Java Spring, Hibernate
- **Database Technologies:** SQL, NoSQL, HBase

PROJECTS

- SurfStore - Distributed Networked File Storage Service**
- Created a file storage service where every file was divided into blocks and a distributed metadata store kept track of the correspondence between files and blocks.
 - Implemented the 2 Phase commit protocol for replication consistency and fault tolerance of the distributed database.
- Prediction of Salary Income Ranges using Supervised Learning Algorithms**
- Leveraged the Stack Overflow dataset to build a model which predicts the salary range of a person.
 - Performed data cleaning, feature engineering, parameter tuning and experimented with Random Forests, Neural Nets, XGBoost and various other supervised learning algorithms.
- Music Generation using RNN Architectures**
- Experimented with Recurrent Neural Nets to generate music at a character level using ABC notation.
 - Utilized LSTM and GRU with varying levels of hidden units and layers to get the best performing model which could generate respectable music.
- Ranking of DBpedia Entity Properties Using Machine Learned Ranking (MLR) Algorithms**
- Ranks the various properties of a DBpedia Graph Database entity as per their relative importance.
 - Supervised learning and the Random Forests Algorithm was used and implemented using Python and RankLib.
 - Presented and published the paper *Heuristic Generation of Dynamic Quiz Game Using Linked Data and Gamification* at the International Conference on Inventive Computation Technologies (ICICT), IEEE, 2016.

ACHIEVEMENTS AND EXTRA-CURRICULAR

- **Graduate Teaching Assistant** - Intro. to Discrete Mathematics, UCSD 2018
- **ACM-ICPC Kharagpur Asia Onsite Regionals** - Rank 57/100 2014
- **ACM-ICPC Amritapuri Asia Onsite Regionals** - Rank 179/265 2014
- **JPMorgan's Code for Good Hackathon Mumbai** - Challenge Winner 2015