

SUPRABHA SOMASHEKHAR

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EDUCATION:

Masters, Computer Science and Engineering
University of California, San Diego

Sept'17-Dec'18
[3.73/4]

Bachelor of Engineering, Information Science and Engineering
R V College of Engineering, Bangalore

Sept'11-May'15
[9.17/10]

WORK EXPERIENCE:

Software Engineering Intern

June'18-Sept'18

Cisco Systems, San Jose

- Developed a health monitoring tool to keep track of usage and infrastructure of NX-OS switches
- Developed backend microservices to enforce effective optimization and usage of switches [Python, MYSQL, Javascript, Machine Learning]

Graduate Student Researcher

Jan'18-June'18

UCSD-IBM Human Microbiome Project, San Diego

- Deployed and orchestrated an ova and automated the process of qiita installation[Shell][Improved time spent on installation from 30 minutes to less than 2 minutes]
- Developed new and extended existing qiita plugins (plugins for microbial analysis) [Python, Shell]
- Used Machine Learning Algorithms to bring in new insights of the relation between microbiome data and diseases caused by them. [Python, Machine Learning]

Member of Technical Staff

July'15-Aug'17

VMware Private Limited, Bangalore

- Developed a report framework called 'Hybrid Cloud Assessment' from end to end [number of licenses sold increased by 10%][Java,Postgres,MongoDB]
- Developed APIs to provide comparative cloud costs and optimization analytics[REST,Java]
- Developed a mapping interface between user-roles and infrastructure owned.[Java]
- Developed APIs to connect to the vRealize Business Product through the vCenter Server Appliance Management Interface.(VAMI)[Python]
- Delivered Azure integration between two core products (vRealize Automation and vRealize Business)
- Engaged in regular customer interactions and critical bug fixing activities[Java,Postgres]

PROJECTS:

Identification of Tree species based on leaf patterns:

- Built a binary classifier(k-means) for leaf/non-leaf classification and PNN classifier for tree identification using 12 morphological features (MatLab, Python) [Accuracy:90.32% for a 20k record dataset]

User-Business Visit Recommender:

- Developed a recommender system using real data of two hundred thousand samples to predict the accuracy of user-business visit and made user business rating predictions (Python) [Accuracy:91%]

Performance Comparison of Virtual Machines and Containers with Unikernels:

- Factors considered includes Scalability, reboot time, initial startup time, read and write times.
- Presented the results in Compute Metric Group(CMG) Conference

Image Filling:

- Filled in portions of images that are missing/corrupted/unwanted using DCGANs

PRIMARY SKILLS:

Courses: Algorithms and Data structures, Database Management, Recommender Systems and Web Mining, Natural Language Processing, Graph Theory

Programming & Scripting: Java, Python, Shell [familiar with: Perl, Javascript, C, C++]

DB experience: MySQL, Postgres, Spark/Hadoop