RAHUL ARAVIND MEHALINGAM

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OBJECTIVE

A highly motivated individual with an inclination towards analytical and logical thinking, seeking an opportunity for a challenging internship in the field of software development.

EDUCATION

Master of Science, Computer Science — Expected: May 2017
The University of Texas at Dallas, Texas — GPA: 3.83/4
Bachelor of Technology, Information Technology, First class with distinction — May 2013
College of Engineering, Guindy (CEG), Anna University, Chennai, India — GPA: 8.7/10.0

TECHNICAL SKILLS

Programming Languages:	C, C++, JAVA, Python, SQL, PL/SQL**,** Node.js
Technologies:	Servlets, JSP, Spring, Hibernate, JDBC, EJB, Docker, Kubernetes, Mesos
Database:	MySql 5.5, Oracle 11g, Postgresql
Test & Build Tools:	JUnit, Ant, testNG, Maven, Jenkins
Scripting Languages:	Shell, Perl

RELEVANT EXPERIENCE

Teradata Labs, San Francisco Bay Area (Software Engineer Intern) — **May 2016 – Aug 2016**

- Part of AppCenter team – Teradata Unified Data Architecture democratizing and accelerating Big Data Analytics adoption.
- Designed and developed a connector that integrates users' codebase with appcenter seamlessly, syncs their code base on every push event and facilitates automated end to end building and deployment of users' application through dockerization process leveraging technologies leading in virtualization and containers.

Key Technologies: Docker, Kubernetes, Marathon, Chronos, Elastic Search, Logstash, Kibana, Zookeeper, Jenkins.

Oracle Corporation, India (Member of Technical Staff) — **Aug 2013 – July 2015**

- Developed an automation framework which validates all lifecycle operations of Generic Services which are On-Demand cloud services engineered using RESTful APIs. The framework was used by internal testing teams which reduced testing lifecycle.
- Implemented an automation test framework for validating the projects and shares of Fusion apps managed on ZFS Storage system. The framework caught potential blockers which remained uncaught for a long time.
- Interacted with the core engineering team and contributed majorly by building apis and helper classes for generation of routing rules. They serve as the road map directing the incoming Http requests to the appropriate cloud deployments.
- Re-engineered the process of Service Deployment Infrastructure (SDI) installation on data centers laterally which saved up to 20% of installation time.

PROJECTS

QABot: Implemented a NLP application which responds to Users' queries on Computers & Networks. The Application extracts all the features and the opinions associated with the features from the reviews, groups the features based on its similarity and builds an ontology (knowledge base). The application was able to answer and provide alternatives to all types of users' queries.

Multi-Dimensional Search: Implemented data structures that performs efficient multidimensional search operations for an online e-commerce product inventory based on multiple attributes like part of name, min/max price, price range, ID range, similar description, price hike. Search made significantly faster by using balanced search trees with indexing and hashing techniques.

2048 Game solver: Implemented statistical machine learning model – Markov Random Field model where the grid was considered to be a square lattice and each tile was marked as Markov Random Field. Trained the model with different state samples and the potential functions parameters were learnt. After training, the model led to an optimal sequence of states and achieved an accuracy of 72%.

Text Classification: Implemented Naïve Bayes, logistic regression and perceptron training algorithm for performing classification of email as Spam or ham (Non- spam). Increased the spam filter's accuracy to more than 95% on the test set.

Restaurant Recommender: Proposed three novel techniques for extracting implicit features: mining from adjective synonym set, derivationally related terms of feature, and reverse mapping of opinion to a feature based on co-occurrence calculation. The system achieved a relatively good F-score in feature extraction compared to other algorithms and made a fine tuned recommendation.

TECHNICAL ACTIVITIES AND ACHIEVEMENTS

- Student Data Worker (Software Developer) at the Institute of Data Analytics & Performance Management, UT Dallas.
- Member of Center for CS Education and Outreach, UT Dallas, teaching programming contest problems, JAVA, SQL.
- Event and Workshop Coordinator of Itrix 13, a National level Technical symposium of my department.

WORK AUTHORIZATION: F1 Visa — **AVAILABILITY:** Fall 2016 & Winter 2016