Sabari Girish Mahendran

 +1 585 755 9652 • ✉ sm8531@.rit.edu • ⊕ sabarigirish.github.io/

Work Experience

Amazon.com, Inc	**United States**
Software Development Engineer Intern	*August 2016 - December 2016*

- Worked for the Broadway team of Retail Financial Intelligence Systems group.
- Created an application to capture the usage metrics of the products developed by the team and to surface them in an user interface.
- Java was used to capture the usage metrics details in logs.
- Wrote python scripts that copies the logs from host to AWS-S3, creates connection to EMR using boto3 API and adds the hive script in the cluster.
- Wrote Hive scripts to generate the results in AWS-S3.

Hewlett Packard	**India**
Business Intelligence	*August 2013 - July 2015*

- Worked for Business Intelligence team under Analytics and Data Management business unit.
- Created Web Intelligence reports for Vodafone using PL/SQL procedures and SAP Business Objects as a part of Business Intelligence team.
- Reduced the query execution time by aggregation using Online analytic processing.
- Responsibilities included developing Business Intelligence Reports from initial requirement to design, implementation, testing and documentation under SDLC model.
- Wrote an automation using shell script to alert the team when the procedure fails to load the database.

Education

Rochester Institute of Technology	**Expected - December 2017**
Master of Science in Computer Science,	*GPA - 3.70/4*
Madras Institute of Technology, Anna University	**August 2009 - June 2013**
Bachelor of Technology,	*GPA 3.32/4*

Projects

- **Routing Information Protocol:**

  Implemented and simulated Routing Information Protocol version 2 using Distance Vector algorithm and route poisoning.

- **Text mining and Classification of Tweets:**

  Streamed tweets from Twitter using Twitter Rest API. Performed text mining using NLTK-Natural Language Processing module. Classified the tweets based on their genres using Naive Bayes and Support Vector Machine.

- **Developed middleware solution for heterogeneity in wearable devices:**

  Designed and developed a software layer that masks the heterogeneity issue in wearable devices. In addition to that provided API standards for each wearable devices that is used to develop applications integrating wearable devices.

- **Medical Imaging using Hybrid segmentation scheme:**

  Reduced error rate in CA-diagnosis of Lung disorders using a hybrid segmentation scheme using Active Shape Regression model, Region of interest extraction and classification using Support Vector Machine. Achieved 8% reduction in error rate when compared to k-nearest neighbor classification.

- **Blood Donor Database:**

  Helps in informed decision making to choose the nearest blood donor available for emergency patients using Java and MYSQL and was extended to find the nearest hospital and doctors during emergencies.

- **Invigilation scheduler:**

  Designed an application to schedule the priority based invigilation time slots for semester finals using Java and MYSQL.

- **Dropbox clone:**

  Developed a clone of Dropbox application as part of Cloud Computing project using Python and MYSQL.

Technical skills

- **Programming Languages:** Python, Java, C, C++, Shell scripting,
- **Database:** Elastic Mapreduce Hive, Amazon Web Service S3, Oracle 10g, MYSQL
- **Industry Software Skills:** SAP Business Objects, Informatica
- **Operating System:** Linux, Windows

Courses

- Foundation of Computer Science theory
- Computational Problem Solving
- Foundations of Algorithms
- Advanced Object Oriented Programming and Design
- Advanced Programming Language in C++
- Foundations of Computer Networks
- Distributed Systems
- Foundations of Cryptography
- Database Management Systems
- Introduction to Big Data
- Big Data Analytics