

Sabari Girish Mahendran

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Work Experience

Amazon.com, Inc

Software Development Engineer Intern

United States

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

Business Intelligence

India

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

- Master of Science in Computer Science,

Expected - December 2017

GPA - 3.73/4

Madras Institute of Technology, Anna University

- Bachelor of Technology,

August 2009 - June 2013

GPA 3.32/4

Projects

○ Text mining and Classification of Tweets:

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

- **Routing Information Protocol:**

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

- **Spotify clone:**

Developed an clone of Spotify application using Cassandra python driver.

- **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.

- **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, Cassandra, H2, 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
- Introduction to Big Data
- Big Data Analytics