

# Sabari Girish Mahendran

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## Work Experience

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### 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

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### 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

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### ○ 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.

- **US Airlines rating system using Twitter data:**

Performed text mining/sentiment analysis on tweets and classified the tweets as positive, negative or neutral feedback. Generated the validation data by streaming tweets from Twitter using Twitter Streaming API. The results are used to rate the airlines that helps customers to choose a airline with better service.

- **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

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- **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

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- 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 system Implementation
- Introduction to Big Data
- Big Data Analytics
- Foundations of Intelligence Systems