Sai Komaravolu

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# Summary

A Senior Software Developer with 13 Years of experience into Software design, development, testing and Analytics. Well versed in Java, Data Analytics (EDA), Data Pre-Processing & Data Science, Javascript and Javascript frameworks (React, Promise, D3, C3, Jasmine etc.…). An aspiring data scientist with interest in the areas of Machine and Deep Learning.

# SKILLS

**Machine Learning:** PCA, Clustering (Hierarchical and KNN), Decision trees and Random Forest.

**Deep Learning:** Artificial Neural Networks

**Statistical Methods:** ANOVA,Hypothesis testing and Confidence Intervals, Dimension Reduction, T Test, Chi Square Test

**Programming Languages:** Java, Javascript and Python

**Database Language:** SQL

# EXPERIENCE

## Honeywell, Bangalore *– Sr Advanced Software Engineer*

May 2015 - PRESENT

* **Niagara Analytics Framework**
  + Involved in the design and development of EDA of IOT data, it provides user with Honeywell Energy Domain related information.
  + Involved in the design and development of Data-Pre-Processing phase of Data Analytics, used KNN algorithm and Linear Regression to handle missing data for discrete and Continuous data.
  + Involved in the design and development of Data Preparation phase of Data Analytics, used Outlier Identification Algorithm (Boxplot, IQR and Z-Score) for numeric and ordinal data (Central Tendency).
  + Designed and developed UI and Report framework using Javascript (C3, D3) and Java to help users get more information from the Analytics performed on the IOT data.
  + As a POC worked on integration of R framework in the IOT-Niagara Platform, it will enable users to run the R code and work on data without stepping out of framework itself.
  + Software development, Technical Product Ownership, Lead the team and be the Scrum master are one of my duties in this project.
* **Security and Access Control**
  + Designed and developed HTML5 application for the legacy Webstart driven UI interface of the Security Access Appliance.
  + Designed and developed the UI video streaming frameworks of Axis and Milestone cameras and provided IOT implementation in the framework.
  + Pivotal in finalizing the third-party JS frameworks to integrate with Appliance.

## GE Healthcare, Bangalore*- Senior Design Engineer*

November 2012 – May 2015

* **Enabling security for services, deployed over Karaf**
  + Designed and developed Security-Layer that enables the SAML token issue, validation and renewal process between an OSGI service, and an HTML5 user interface deployed over Play Server.
* **Collaboration in Radiology-Information-Systems (RIS)** 
  + Designed and developed the JavaScript piece of this assignment. In brief, GE is in market with RIS systems, for next generation imaging we have decided to Collaborate the radiologists that sit at different places. Technology that we chose for Collaboration is XMPP using Strophe.
* **Screen-Share between RIS systems**
  + establish screen share ability between two different RIS systems
* **Instant messaging and presence**
  + Designed and developed JavaScript code to establish Instant-Messaging and Presence services over Cisco Unified Presence Server using jabberwerx.js.

## 

## ModelN, Hyderabad *– Product Support Engineer*

February 2012 – November 2012

* Responsible to provide technical and functional support to the customers using ModelN product. Currently I handle Abbott-ADD and actively participate in resolving their issues. Daily I engage with customer through mail/call to discuss the issue complexity and resolution.

## GE Healthcare (Medplexus), Hyderabad*- Design Engineer*

January 2011 – February 2012

* Designed and developed an interface that will enable the use of a patient’s Medical Data across the globe. I have developed a central interface that pulls the required data from POMS application and loads it to a specific configured location. By doing that, data at one location can be easily set up at any other configured locations and physicians will have ease of access

## Tata Consultancy Services, Hyderabad*- Design Engineer*

February 2008 – January 2011

* Designed and developed applications for Belgium Retail Giant Colruyt and Telcom Major Ericsson.

# PROJECTS

#### **Salary Analysis using ANOVA and Principal Component Analysis on College Admissions Data**

* + The **project** involved drawing inferences from 2 case studies, namely - Salary Analysis, College Admissions Data. The concepts of Exploratory Data Analysis, Analysis of Variance, and Principal Component Analysis are used to draw inferences from these case studies.
  + **Skills and Tools:** ANOVA, EDA, PCA

#### **Statistical & Probabilistic Analysis of Store Sales, University Survey, & Manufacturing data**

* + The project involved drawing inferences from 3 case studies, namely - Wholesale Customer Data (Store Sales), University Survey Data & Manufacturing Shingles Data. The concepts of various measures of Descriptive Statistics, Probability and Probability Distributions and various measures of Estimation & Hypothesis Testing are used to analyze these case studies
  + **Skills and Tools:** Descriptive Statistics, Probability & Probability Distributions, Estimation, Hypothesis Testing
* **Uber Drive**
  + The project is based on the trips made by Uber drivers. Different aspects of the trip are analyzed by using different functions in Python.
  + **Skills and Tools:** Python Functions and Data Interpretation

# CERTIFICATIONS or AWARDS

* Certified Scrum Master by Scrum Alliance.
* Niagara Certified TCP and Developer.

**EDUCATION**

## Texas McCombs School of Business & Great Lakes University*- Post Graduate Program for Data Science and Business Analytics (PGPDSBA)*

## NIMRA Engineering College -JNTUH, Vijayawada*- B. Tech (C.S.E)*