

Data Engineer and Backend Developer

## SRINIDHI SRIDHARAN

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Portfolio:



### Professional Summary

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An Analytics consultant with 2+ years of experience and well versed in data engineering and backend development especially on Cloud platforms. Has a proven track in working in Analytics - Centre of Excellence and later moved on to become Data Engineer.

### Technical Skills

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Database Development - **SQL, NoSQL**  
Python for Data Science - **Pyspark, Pandas**  
**Java, REST API- Nodejs, C++**  
Data Modelling, Data Wrangling, Web Scraping  
**Hadoop, Apache Spark, Kafka**

**Cloud Platform** - AWS, CloudFoundry Development  
**SAP HANA**, SAP Predictive Analytics and **BI Tools**  
Statistics  
**R basics, Excel VBA**  
**Docker, Jenkins CI, Linux**

### Education

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**2014-2017** **BACHELOR OF ENGINEERING**, COMPUTER SCIENCE AND ENGINEERING, Meenakshi Sundararajan Engineering College

- **CGPA: 8.84.** University Rank Holder (**Rank 24 out of 16,499 candidates** under Anna University, **Rank 3 in Overall CS department** in College)
- Endowment prize for best academic performance, recognition for consistent performance in Semesters by Department of Mathematics.
- Student Lecturer, Member of NSS, College Choir, Overall coordinator for technical events in University cultural.

**2011-2013** **HIGHER SECONDARY - D.A.V HIGHER SECONDARY SCHOOL**, MAJOR IN COMPUTER SCIENCE  
Secured **97%** and a cash prize for best academic performance

**1999-2011** **CLASS X - HINDU SENIOR SECONDARY SCHOOL**

- **10 CGPA.** Present in Roll of Honour
- Multiple awards as vocalist in inter school cultural

### Professional Experience

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**APR 2019 - MAY 2019** **FREELANCER**, - [PAVO AND TUSKER INNOVATIONS\\*](#)

**ML PLATFORM DEVELOPMENT, ML ENGINEER**

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- ML Engineer. Built and deployed a Spark engine that groups, filters and sort the data converted to pyspark dataframe
- Automated the process of data preparation, visualization based on cross validation techniques after fitting

into model

- Interactive tool for Data Scientists to load data, choose models and visualize the prediction results using binning.
- Algorithms Supported in Engine during Beta stage - SVM Classifier, Logistic regression, Linear Regression, K-means clustering.

**AUG 2018 - JULY 2019**

**ASSOCIATE CONSULTANT, DATA ENGINEERING - [KAAR TECHNOLOGIES\\*](#)**

**PORTAL APPLICATION DEVELOPMENT - WORLDWIDE S/4HANA INNOVATION REQUEST REPOSITORY - BACKEND DEVELOPER ,SAP CLOUD PLATFORM**

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**CLIENT: SAP LABS - WALLDORF, GERMANY**

- Built a complete Product Portfolio management tool for SAP S/4HANA cloud Team in SAP Walldorf with a team of only 2 developers and brought a profit margin of 80%.
- Lead the Project on requirement gathering, managed Sprint Deliverables, Improved their S/4HANA Innovation progress cycle by two fold.
- Responsible for Backend – SQL and REST API development using SAP HANA Database , Nodejs, Python and SAP Analytics Cloud
- Early Adopter of New Cloud Foundry based Cloud Platform

**OCT 2017 - JULY 2018**

**ANALYTICS AND INTEGRATION CONSULTANT, CENTER OF EXCELLENCE - KAAR TECHNOLOGIES**

**REVAMPING THE REPORTING LANDSCAPE TO IN MEMORY COLUMNAR DATABASE WITH REAL TIME DATA INSIGHTS - BI CONSULTANT**

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**JAN 2018 - FEB 2018, MAY 2018 - JULY 2018**

**CLIENTS: DAVID BROWN SANTASALO, UNITED KINGDOM**

**FIRST SOLAR INC, UNITED STATES**

**ZEKELMAN INDUSTRIES , UNITED STATES**

- Revamped their traditional Reporting Landscape to SAP In-Memory Data platform that improves the data loading speed by 2.5x
- Interpreted their business KPIs and created data models from scratch
- Worked on SQL, multiple BI tools - Tableau, MS Power BI, SAP Analytics Cloud, SAP Embedded analytics
- As an Integration consultant performed Integration in B2B scenarios between an On premise and a Cloud Platform Application using Cloud Platform Integration service built on top of Apache Camel Framework

**PROOF OF CONCEPTS/ PROJECT PROPOSAL:**

\*Proof of Concepts are created as part of feasibility analysis of an idea or an approach from technology standpoint.

- **ARCHITECTED THE SOLUTION AND IDENTIFIED THE PREDICTIVE MODELS FOR INDUSTRIAL INCIDENT PREDICTIONS (APR 2018 )**
  - Architected the Platform for Running Predictive models on HANA (In memory Data platform)
  - Identified the suitable models for Incident Severity Classification and Accident Prediction based on Parameters like Employee Training - **Naive Bayes Model, Decision Tree Algorithms**
- **DEPLOYED ML ALGORITHMS FOR EXTENDED WARRANTY RATE PLANNING, PROOF OF CONCEPT , SAP PREDICTIVE ANALYTICS (MAR 2018)**
  - Pioneered the usage of **SAP Predictive Analytics** Library feature
  - Utilized the **Pareto Analysis or ABC Model** to identify the top 20% contributors to warranty Rate
- **COMPETITIVE ANALYSIS OF PARTNERS - WEB SCRAPING AND SEGMENTATION FOR MARKETING TEAM IN KAAR TECHNOLOGIES (DEC 2017)**
  - Took initiative to Automate the data scraping process using **Python** for the marketing team by Setting up Web crawler to scrape the information on SAP partners which reduced their manpower cost

- Performed market segmentation on the scraped data that improved their sales pipeline for next 6 months.
- **HEALTHCARE KPI DASHBOARDS FOR MINISTRY OF HEALTH, KINGDOM OF SAUDI ARABIA (Nov 2017)**
  - Created dashboard Prototypes for a \$10M+ Analytics proposal demo
  - Identified Key Performance Indicators for Healthcare and Diseases
  - Provided Solution on Data Orchestration from 30+ External Sources

## Internships

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### **FEB 2017**      **SMART DATA INTEGRATION - CENTER OF EXCELLENCE , KAAR TECHNOLOGIES**

- Proof of concept on Smart Data Integration - Remote access of data from cloud and on premise systems and visualizing it on In memory columnar Database - HANA
- Comparative analysis between Smart Data Integration and SAP Cloud Platform Integration which is another Data Integration service.
- Monitored and handled the Application and platform lifecycle management.

### **MAY 2016**      **PARALLEL PROCESSING USING HADOOP AND MAPREDUCE - BIG DATA DEVELOPER , KRISH IT**

- Setting up hadoop clusters and Working with unstructured Big data using Hadoop, Map Reduce in Python
- Performed Linguistic frequency generation and Social Network Graph analysis using Hadoop MapReduce

## Projects

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**STREAMING DATA PIPELINE FOR SENTIMENT ANALYSIS USING APACHE SPARK AND KAFKA**

**PIPELINE TO STORE SCRAPED DATA IN MONGODB USING PYTHON**

**RUNNING CENTRALITY ALGORITHMS ON SOCIAL GRAPH USING PYSARK AND Neo4J (IN PROGRESS)**

## Volunteer Experience

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**EX-COMMITTEE MEMBER AND COMPUTER SCIENCE TUTOR - SYMA , TRIPLICANE, CHENNAI**

- Introduced the Computer Science Subject in their Growth System for Education and served as CS tutor for a year
- Hosted events , Digitized their charity activities

**NATIONAL SERVICE SCHEME MEMBER , MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE**

Spearheaded the Swachh bharat initiative inside my college, attended service camps in poverty stricken area.

**VOLUNTEER , PYCON INDIA 2019**

**MEMBER , TOASTMASTERS CLUB**

## Awards and Recognition

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**PANEL'S CHOICE - ONE DAY HACKATHON, ANGEL HACK**

Responsiblee - A Hyper-local application that provides credit scores to citizens based on their community participation. Played my part as Backend NOSQL developer using NoSQL Database - MongoDB.

**MEMBER OF NASSCOM WOMEN WIZARD'S RULE TECH (W2RT)**

Represented my company in NASSCOM's Initiative that focuses on grooming Women Technologists to turn into Leader by exposing us to Latest Technologies - Big Data, AI , VR, Cloud Computing, Block chain, 3D Printing through AI powered resource engine.

#### **ACADEMIC EXCELLENCE, MEENAKSHI SUNDARARAJAN COLLEGE**

Awarded Silver medal as Endowment Prize for Academic Excellence in 4th,5th and 7th semesters

#### **BEST SINGER - ANNA UNIVERSITY , GUINDY**

Emerged as the best singer in the intercollegiate music competition for NSS volunteers

#### **MEMBER OF THE BOARD COMMITTEE (2017 - 2018)- NGO, SYMA**

Unanimously Elected as a committee member for serving in NGO in multiple roles for a year

#### **DATA SCIENCE AND ENGINEERING EVANGELIST - KAAR TECH OMEGA INITIATIVE**

[Data Science Evangelist](#)\* in Kaar Tech's Initiative for technological adoption into the company. Chosen based on my initiatives taken within the company for Improving their exposure to Data Science and Engineering

Received **Star of the Month** award twice

#### **Courses and Certification**

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**TAMING BIG DATA WITH MAP REDUCE AND HADOOP - LEARNING MAP REDUCE JOBS USING MRJOB - UDEMY**

**DIPLOMA IN COMPUTER APPLICATION - CSC COMPUTER EDUCATION**

**ARCHITECTING BIG DATA APPLICATIONS REAL-TIME APPLICATION ENGINEERING**

**MACHINE LEARNING BY ANDREW NG, STANFORD UNIVERSITY - COURSERA (UNDERGOING)**

#### **Language Skills**

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**TAMIL** - Native Speaker

**ENGLISH**. Proficient in Writing, Reading, Speaking and Understanding.

**FRENCH** - Basic level in Reading, Speaking and Understanding.

#### **Reference**

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1. Vaidehi Srinivasan - Solution Architect, Kaar Technologies
2. Monica Jeniffer - Head of the Department , Computer Science , Meenakshi Sundararajan Engineering College
3. Sriram Subramanian - CEO and Founder, Pavo & Tusker Innovations