



Sagar Toms



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sagartoms.github.io

Education

M.Tech

Computer Science and Engineering
specialized in Information Security |
College of Engineering, Trivandrum |
2021 (Expected) | CGPA: 8.11 (Upto
S1)

B.Tech

Computer Science and Engineering
CUSAT | 2016 | CGPA:7.86/10

Class XII

THSS Mallappally | 2012 | 84 %

Class X

SBHSS Vennikulam | 2010 | 80 %

Skills

Programming

Python, C, C++, HTML5/CSS

Azure Stack

Data Factory, HDInsight Spark
Cluster, Databricks, Azure SQL Server,
Cosmos DB, Automation Account

Big Data & Analytics

Apache Hadoop, Apache Spark

Databases

MS SQL, MySQL, Azure SQL Data
Warehouse

SDLC Methodologies

Agile, Waterfall

Summary

A technology enthusiast, experienced in Python, Apache Spark and Microsoft Azure with a passion to build software solutions using latest technologies.

Work Experience

Apr-Aug'19 Senior Systems Engineer - Infosys Limited | Trivandrum 5 Months

Data warehouse development

- Experience on the implementation of Data Warehouse for a fortune 500 logistics major.
- Used Microsoft Azure resources to move data from on-premise system to Azure SQL Data Warehouse.
- Developed Azure automation scripts to automate the resource management which reduced the overall costs.
- Experience in generating ARM templates and its deployment to higher environments.

Jul'17-Mar'19 Systems Engineer - Infosys Limited | Trivandrum 1.8 Years

Near real-time reporting of deliveries

- Developed Azure databricks notebooks and scheduled them using Azure Data Factory with Azure Analysis Services as underlying reporting layer which helped a Fortune 500 logistics major for near real-time reporting of their deliveries.

Big Data Centre of Excellence (CoE) Team

- Experience in Python and Apache Spark especially in near real-time development.
- Developed a machine learning endpoint for a big data real-time streaming framework using PySpark code which enables users to apply machine learning algorithms on real-time streaming data.
- Configured load balancing on Python Flask uWSGI Server and Plumber in R to enable high throughput for applying machine learning algorithm on streaming data.
- Developed an ad-hoc reporting tool based on Python (Flask-SQLAlchemy), HTML5 and JavaScript(Chart.js, D3.js), which plots static visualizations based on REST API calls. Implemented custom caching layer for caching the datasets which provides better performance than parquet files.
- Created SQL scripts to automate the repetitive tasks which drastically reduced the development time.

Feb-Jun'17 Systems Engineer Trainee - Infosys Limited | Mysore 4 months
Trained in Python and SAP ABAP from Infosys Global Education Centre, Mysore. Scored as High Performer (HPF).

Achievements

- Completed course on Google Cloud Platform Big Data and Machine Learning Fundamentals with Coursera, May 2020.
- Received 2 Insta Awards from Infosys for my contributions to the CoE Team, May 2018 & Jun 2018.
- Awarded Rising Star Badge by Infosys for my outstanding performance rating in the CoE Team, Jun 2018.
- Awarded Gold Level Badge for problem solving at HackerRank, Jan 2019.

Academic Projects

- Real-time cyber attack detection using machine learning techniques (M. Tech mini project).
- Categorizing Twitter users on the basis of their interests using Hadoop and NLP (B.Tech project)