

SAGAR TOMS

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SUMMARY

A technology enthusiast, having 3 years of experience in Python, Apache Spark and Microsoft Azure with a passion to build software solutions using the latest technologies.

EDUCATION

Board	Institute	%/CGPA	Year
KTU	College of Engineering Trivandrum (M. Tech, CSE (Info. Security))	9.14/10	2021
CUSAT	College of Engineering Kallooppa (B. Tech, CSE)	7.86/10	2016
HSE	Technical Higher Secondary School Mallappally	84%	2012
SSLC	St. Behanans Higher Secondary School Vennikulam	80%	2010

EXPERIENCE

- Applications Engineer, Oracle India Pvt Ltd.** **Aug '21 – Present**
 - Worked on a machine learning project on text generation to enhance the user experience in the application.
 - Currently working on Oracle Service Cloud, adding new features.
- Senior Systems Engineer, Infosys Limited** **Apr '19 – Aug '19**
 - Worked on the implementation of Data Warehouse for a fortune 500 logistics major.
 - Implemented Azure ADF pipelines and SSIS jobs to migrate data from on-premise system to Azure SQL Dw.
 - 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.
- Systems Engineer, Infosys Limited** **Jul '17 – Mar '19**
 - Developed Azure databricks notebooks and scheduled them using Azure ADF with Azure Analysis Services as underlying reporting layer for a Fortune 500 logistics major for near real-time reporting of their deliveries.
 - 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 algorithms on streaming data.
 - Implemented data-preprocessing steps with Python Pandas for training ML models.
 - 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 provided better performance than parquet files.
 - Created Python and SQL scripts to automate repetitive tasks which drastically reduced the development time.
- Systems Engineer Trainee, Infosys Limited** **Feb '17 – Jun '17**
 - Trained in Python and SAP ABAP from Infosys Global Education Centre, Mysore. Scored as High Performer (HPF).

PROJECTS

- **Real-time IoT Botnet Attack Detection using Deep Learning Technique**

Aug '20 – Jun '21

- Project work done as part of M. Tech course.
- Implemented a deep learning model trained with Bot-IoT dataset to detect botnet attacks in IoT smart home networks.
- The system works by monitoring the network in real-time and shows a real-time dashboard to the network administrator including the details about network traffic, possible attacks etc.

Technical Skills

- Programming Languages: Python, C, C++, HTML5/CSS.
- Azure Stack: Data Factory, HDInsight Spark Cluster, Databricks, Azure SQL Server, Cosmos DB
- Databases: MS SQL, MySQL, Azure SQL DataWarehouse
- Big Data & Analytics: Apache Spark
- SDLC Methodologies: Agile, Waterfall

Achievements

- Awarded Gold Level Badge for SQL at HackerRank Aug '20
- Completed course on Google Cloud Platform Big Data and ML Fundamentals with Coursera May '20
- Awarded Gold Level Badge for problem solving at HackerRank Jan '19
- Received 2 Insta Awards from Infosys for my contributions to the CoE Team Jun '18
- Awarded Rising Star Badge by Infosys for my outstanding performance rating in the CoE Team Jun '18

Positions of Responsibility

- Webmaster, IEEE Student Branch CEK 2014
- Executive Committee member at IEEE Student Branch, CEK 2014
- Volunteered at a workshop on Robotics, 'Bots for Robowar' by Techjeeva, Startup Village, Kalamassery. 2013