

Sagar Toms

Summary

Software Engineer with 3+ years of experience, predominantly in Python, Java and Data Engineering. A quick learner and can work irrespective of technology stack. Like to automate repetitive tasks.

Education

- 2019–2021 **College of Engineering, Trivandrum**, *M.Tech, Information Security*. CGPA:9.14.
2012–2016 **College of Engineering, Kolloppara**, *B.Tech, Computer Science and Engineering*. CGPA:7.86.

Work Experience

- Aug 2021 – **Applications Engineer**, ORACLE INDIA PRIVATE LIMITED, Trivandrum, India.
Present - Designed, implemented and deployed an end-to-end system for a context based text generation using Machine Learning.
- Debugged and implemented fixes for high priority defects within a stipulated time frame irrespective of technology stack. Created unit test cases to cover edge scenarios.
- Implemented and delivered features for the product by collaborating with various teams.
- Proactively monitored CI/CD pipelines and reported the failures.
- Prepared technical documentations and worked closely with documentation team to publish the material.
- Actively participated in code reviews to learn and understand about the best practices and coding standards followed in the organization.
- Apr 2019 – **Senior Systems Engineer**, INFOSYS LIMITED, Trivandrum, India.
Aug 2019 - 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 data warehouse.
- Developed Python and SQL scripts to automate repetitive tasks which reduced the development effort of the team.
- Jul 2017 – **Systems Engineer**, INFOSYS LIMITED, Hyderabad, India.
Mar 2019 - Was part of Big Data Center of Excellence (CoE) Team. Developed a machine learning endpoint for a big data real-time streaming framework using PySpark. Configured load balancing on Python Flask uWSGI Server for using machine learning model on streaming data.
- Performed data pre-processing with Python Pandas for training machine learning 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.
- Feb 2017 – **Systems Engineer Trainee**, INFOSYS LIMITED, Mysore, India.
Jun 2017 Trained in Python and SAP ABAP from Infosys Global Education Centre, Mysore. Scored as High Performer (HPF).

Internship

- Nov 2020 – **Project Trainee**, ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS PVT. LTD..
Jun 2021 Designed and implemented a Visual Studio C++ solution generator using Python to assist in testing and validation of an internal tool.

Other Projects

- Aug 2020 – **Real-time IoT Botnet Attack Detection using DL Technique**, M. TECH PROJECT.
Jun 2021 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 dashboard to the network administrator including the details about network traffic, possible attacks etc.

Technical Skills

Programming	Python, Java, C, C++, HTML, CSS, JS
Framework	Python Flask, Pandas, Sci-kit learn
MS Azure	Data Factory, HDInsight Spark Cluster, Databricks, Azure SQL Server, Cosmos DB
Database	MySQL, MSSQL
IDE	IntelliJ, PyCharm, Visual Studio, Visual Studio Code
Other	Docker
Version Control	Git

Achievements

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