Sarath Sajan
Software Developer

About Me   **Hobbies**   **Interests**

Summary

Passionate and experienced web developer and data engineer with 1.5 years of professional experience in the field. Experienced in using Google Cloud Platform to design and implement data pipelines and ETL processes for big data analytics. Seeking to leverage my technical skills and business acumen to drive data-driven insights and innovations in a forward-thinking organization, while embracing new challenges and continuously expanding my skillset.

Work Experience

Tata Consultancy Services - Cloud Database Engineer
Oct 2021 - present ; Kochi, India

- TCS is a service-oriented IT company in India, serving IT solutions to global clients.
- I am in their Retail and GCP business unit working for an Australian retail giant.
- We built the ETL pipelines in GCP using Python and SQL for batch and streaming dataflows.
- I worked primarily with in-store stock replenishment team for managing the data-warehouse of stock replenishment and providing business with data for insights.
- I also worked on their database migration project from SAP systems to GCP.
- I also helped to upgrade and maintain the Apache Airflow for data orchestration pipelines.
- We used a modern stack completely built on the Google Cloud Platform and I've gained a lot of experience working with Cloud Composer, BigQuery, Cloud Function and Github+Azure CI/CD pipeline.

Papers Published

Pose Estimated Yoga Monitoring System
Social Science Research Network (SSRN) · Jul 8, 2021

Articulated body pose estimation is used to estimate the position of body parts and joints in an image. The data from this process is used to build a yoga monitoring system that tracks and analyzes the user's movements and postures for errors. When an error is detected, the user is notified through a display screen or speaker. This allows the user to correct their posture in real-time.

- *http://dx.doi.org/10.2139/ssrn.3882498*

Projects

- AMISAFE - A web app that can check if you have crossed path with any infected person based on date, time and location.
  https://github.com/sarathsajan/cross-path-alert

- Photomosaic Generator - Mosaic Generator which works with all types of images. Doesn't matter what shape the image is, it will automatically adjust size and produce a photomosaic whose tile size, tile repetitions and tile resolution can be user adjusted.
  https://github.com/sarathsajan/photomosaic_generator

Education

Bachelor Of Technology in Electronics and Communications Engineering
2017-21, CGPA - 7.96
A.P.J. Abdul Kalam Technological University, India

Skill-set

- Python, C++
- Flask, Django, OpenCV, Scikit-learn, Pandas, Numpy
- Bootstrap, HTML/CSS
- Google Cloud Platform

Tools

- Jira, Confluence
- Git, Github
- Unity Engine
- Blender 3D