

# Tutorial - CI/CD Pipeline for Google Cloud-Native Microservices React, Flask & NLP/LSTM

CS 587 – Software Project Management  
Dr. Atef Bader  
Illinois Institute of Technology



Presented by Vidhi Kakani

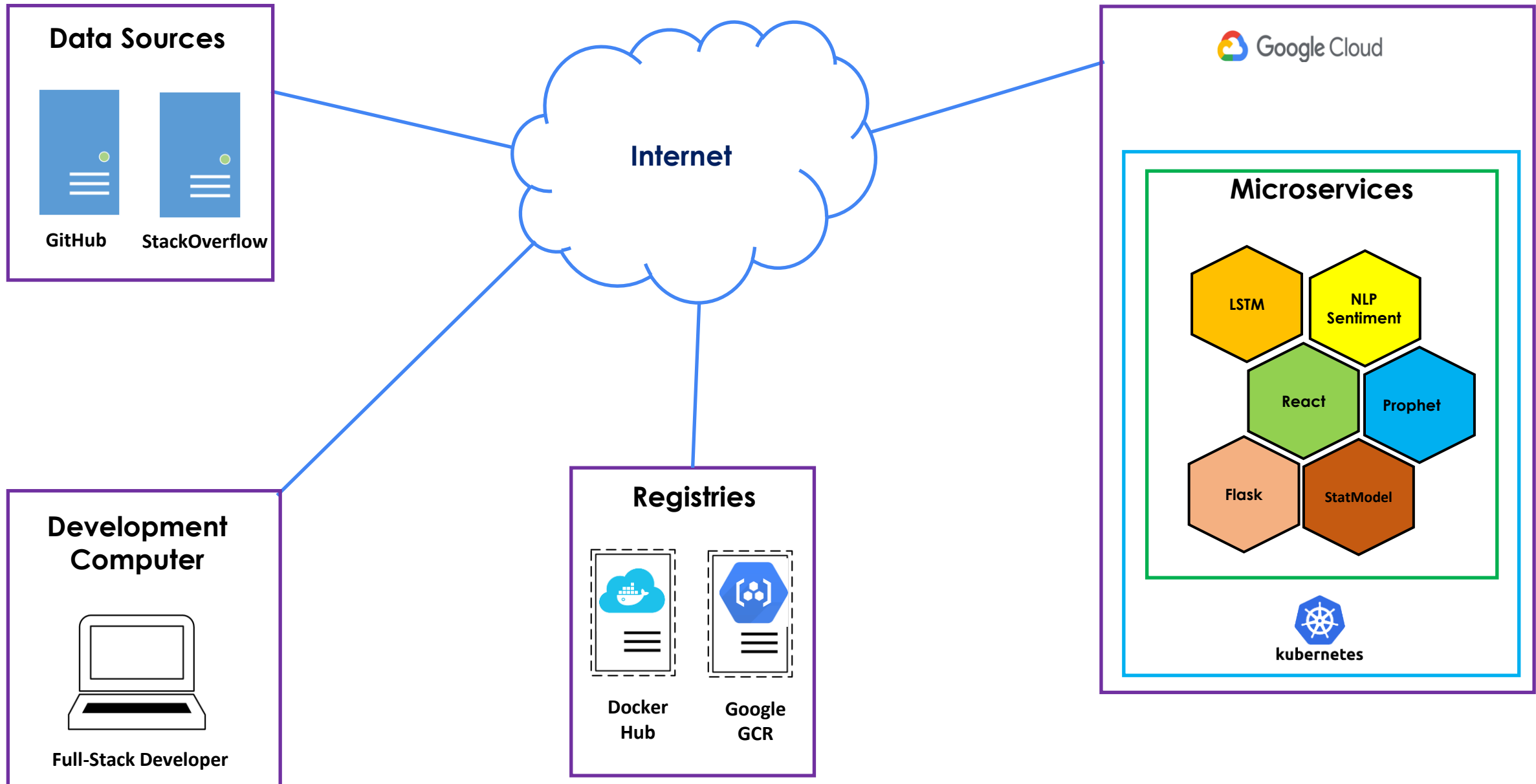
**Deploying React, Flask, and LSTM as  
Microservices on Google Cloud  
To**

**Visualize Historical Data  
&  
Plot Time Series Forecasting Charts**

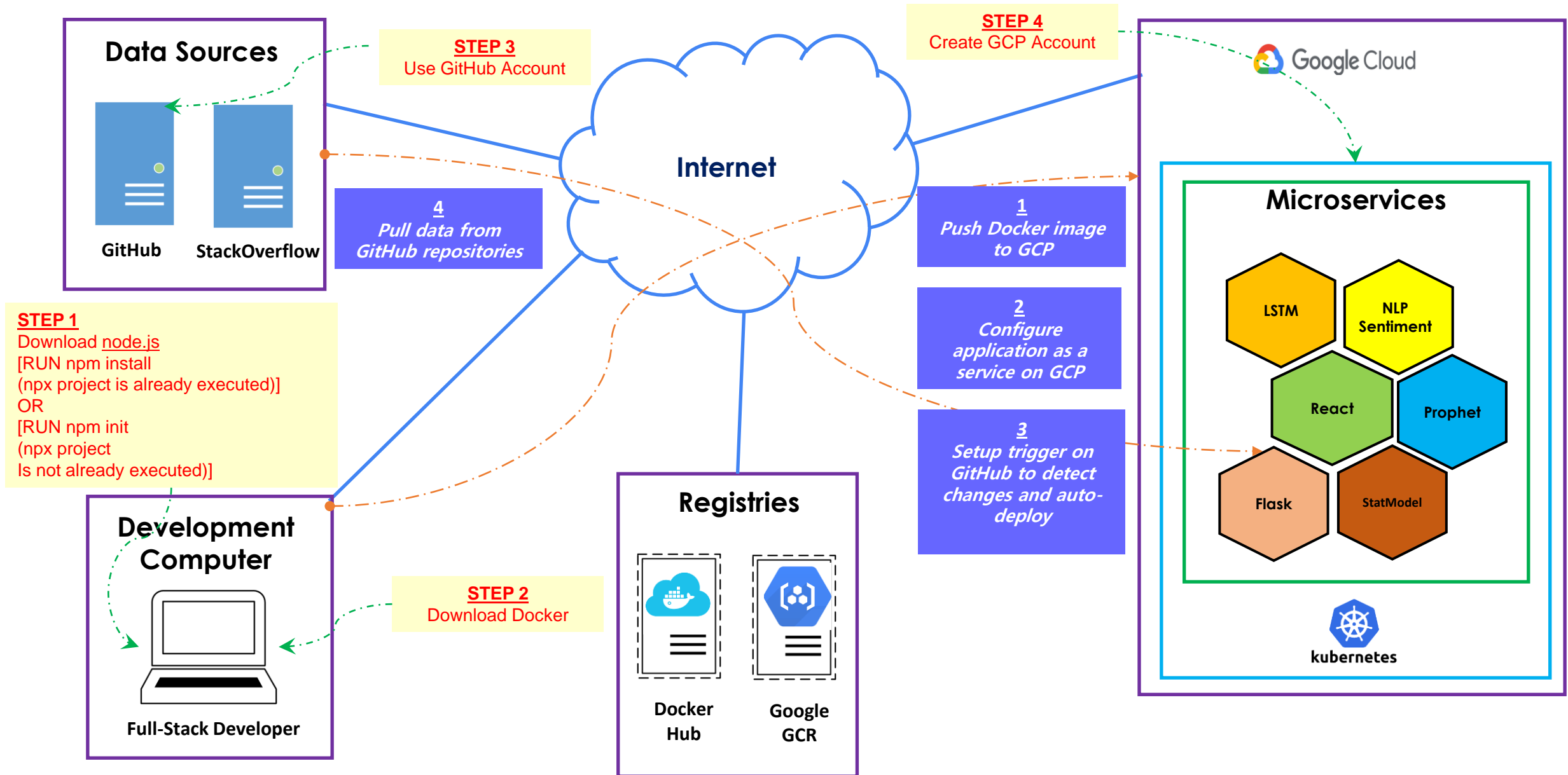
# **Time Series Forecasting and Charting For GitHub & Stackoverflow Data**

- We want to use Google cloud-native microservices to perform the following 3 steps in the order listed below:
  1. Pull Historical/Current Data from GitHub and StackOverflow
  2. Forecast Trends for GitHub and StackOverflow
  3. Plot Charts for Time Series Forecasting for GitHub and StackOverflow

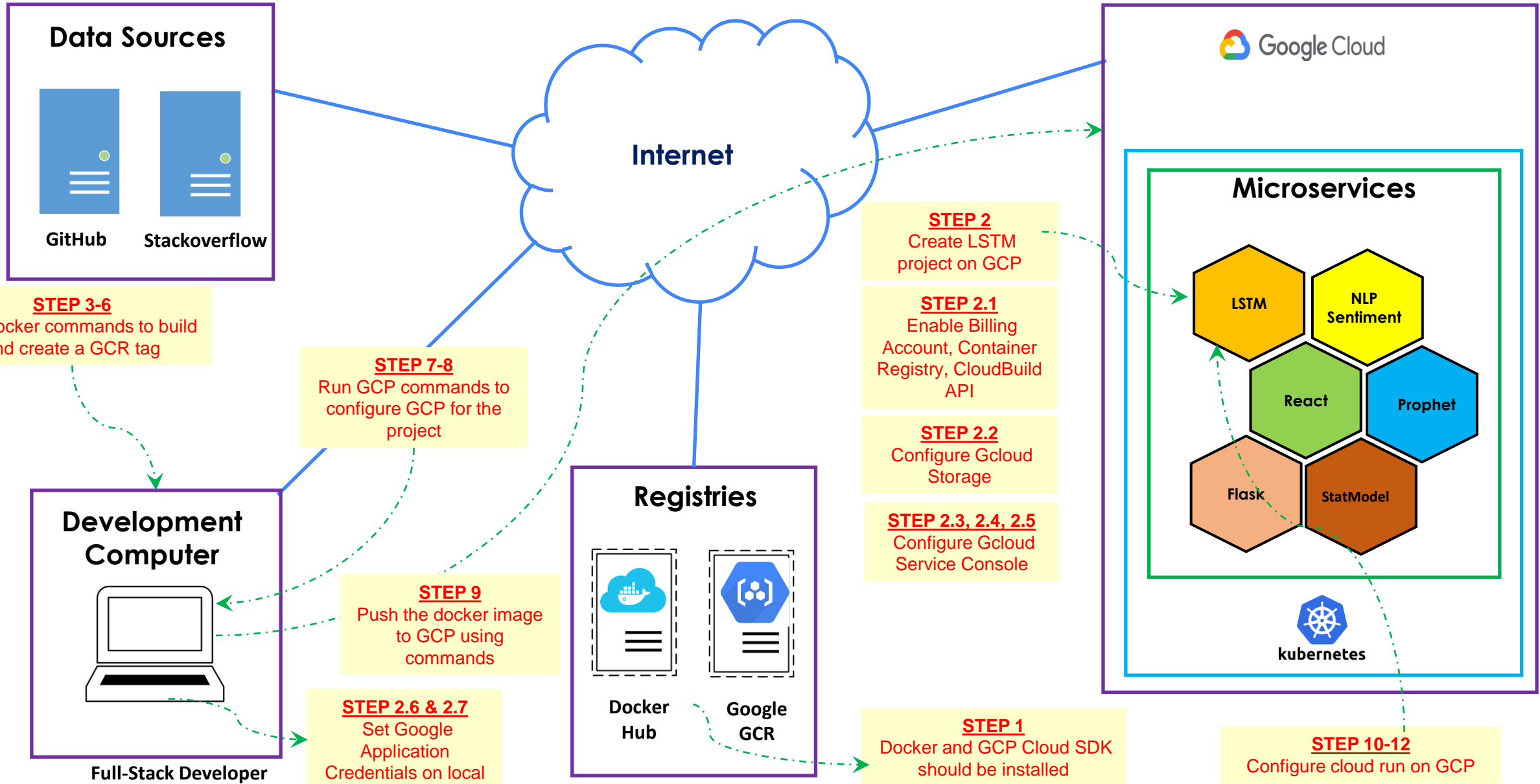
# Architecture - Microservices GCP/GCR



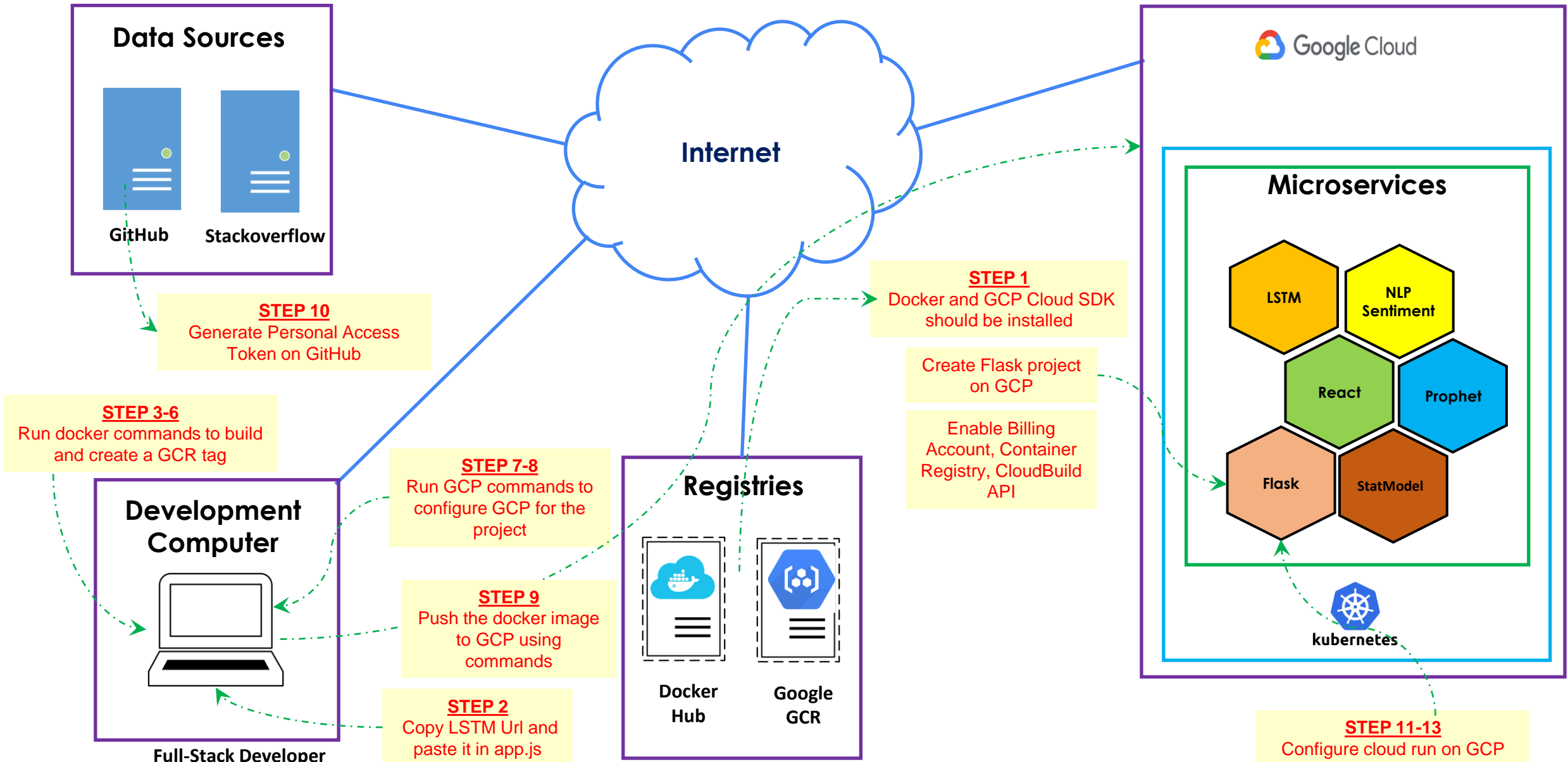
# Environment & Infrastructure Setup



# LSTM Setup



# Flask Setup



# React Setup

