Jeyaprakash Senguttuvan

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SUMMARY

Experienced **Software Engineer and Data Science Enthusiast** with **9+ years in IT**, **architectures, cloud computing (AWS, GCP), and LLM-based applications**. Proven ability in **ML-driven anomaly detection**, **predictive analytics**, and **automation frameworks**. Passionate about leveraging **data-driven solutions** to optimize business processes and enhance AI-powered applications.

Key Highlights:

- **Developed ML-based anomaly detection** using **PYOD**.
- Built **LLM-RAG AI applications** integrating **Chroma Vector DB** and **embedding models**.
- Designed **predictive machine learning models (Random Forest) for energy usage forecasting**.
- Implemented **data lake solutions** on AWS and GCP (AWS Glue, BigQuery, Dataflow).
- Developed **automation frameworks** for web and mobile UI testing.
- Hands-on with **Python, Flask, OpenCV, Docker, Terraform, and GitHub Actions**.

Looking forward to utilizing my expertise in **data science, AI, and cloud-based solutions** to drive **innovative, scalable, and impactful** projects.

CAREER

Kyndryl India, (October 2022 - Present)

Role: Lead 2, Software Development

Roles and Responsibility:

- Data lake implementation in AWS and GCP cloud platforms using technologies like AWS Glue, Lake formation, Dataflow, Big Query etc
- Worked as a lead developer on an In-House Monitoring tool
- Developed an ML based module for Anomaly Detection using PYOD
- Worked on LLM-RAG AI application alongside Chroma Vector DB, Embedding and retrieval

ICU Medical India LLP, (February 2022 - October 2022)

Role: Senior Software Engineer 1, Software Development Engineer
Project: Silver - Embedded Team

Description: Infusion pump devices Manufacturing

Roles and Responsibility:

- Maintenance of Automation scripts for testing the user interface of infusion pump systems
- Tools development improving the project deliverables
- Perform In-Sprint Script development by understanding new Business features Technologies experienced/learnt:
- JavaScript-Selenium – Had an opportunity to create a hybrid custom Automation framework for both Mobile and Web apps
- Python – Automation of business tasks like report generation and process improvement and device interactions

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Comcast India Engineering Centre LLP, (June 2019 – Feb 2022)

Role: Engineer - II, Software Development Engineer

Project: Xfinity Mobile - Comcast

Description: Telecom/Mobile retail sales across the United States of America

Roles and Responsibility:

- Development of Automation scripts for testing the user interface of sales application
- Tools development improving the project deliverables
- Automation report tool and defect triaging bot
- Perform In-Sprint development by understanding new Business features automation
- Backend development for various business features and internal project enhancements
- Was awarded with "Spot Light" performer for the year 2019.

Cognizant Technology Solutions, (September 2015 – May 2017)
Worked as a Programmer Analyst in various projects under Retail domain.
Project Description:

- Data Center Migration, around 1000 applications migrated from Data center for client
- Risk based testing is performed
- Performed Maintenance (Functional and UI) testing on E-commerce websites of 11 Estee Lauder brands using Java Selenium and Appium frameworks
- Mobile testing in Android and IOS devices

FREELANCE KEY PROJECTS (November 2017 - May 2019):
- Helped a Start-up in creating a sensor interface using IOT devices running Micro Python communicating real time with a Node.js Backend (API).
- Created a predictive machine learning algorithm using Random Forest predicting monthly energy usage and created an Node.js API using Express.js framework capable of processing the sensor data from IOT device.
- Project involved troubleshooting all the sensor configurations and Testing of code base (IOT device and server). I found this experience as a most compelling endeavor to learn new technologies.
- Involved with an IIT research cell incubated start-up for Heartbeat monitor using Smartphone camera – using OPENCV - Python
- My sample public source codes available on my GitHub @turbotrail

CERTIFICATIONS:

- "IBM RATIONAL RHAPSODY "development tool for embedded applications (platform C++)

EDUCATION & QUALIFICATIONS

- B.E Electrical & Electronics Engineering from Velammal Institute of Technology, Anna University Chennai, May'2015 with 7.9 CGPA

PERSONAL DETAILS
Languages Known   : Tamil, English.
Location   : Chennai