MAHENDRANATH REDDY PALLE

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EDUCATION

M.S. Computer Science, Purdue University, Fort Wayne, IN Aug 2023 - May 2025

B.Tech Electronics and Communication Engineering, Hindustan University, Chennai, India Jul 2017 - May 2021

EXPERIENCE

Cloud Administrator | SAP BASIS Administrator Jul 2021 – Jul 2023

Cognizant Technology Solutions (Multiple Projects) Hyderabad, India

- Provisioning, configuring and managing various cloud resources like compute, storage, network and security required for hosting and managing SAP Systems and their applications.
- Ensuring smooth integration between SAP Systems and cloud infrastructure, performing database restorations based on requirements and monitoring the daily backups.
- Creating scripts for implementing ARM Templates and automating the support processes like starting/stopping of the systems on demand from clients resulting in cost cutting and performing monthly patches, resizing the disks
- Performing end-to-end System refresh and upgrading software components like Cloud Connector, Data Service Agent, Kernel and various support packs.
- Deploying Fiori applications and swim lane updates, importing the TRs and implementing the SNOTES.
- Setting up monitoring tools and alerts to proactively identify and address the issues on cloud and SAP system and its application problems.
- Handling User administration, authorization management, security policies and certificate renewals within the SAP Systems.
- Monitoring resource usages and perform capacity expansion or optimization as needed to support business growth.
- Collaborating with SAP Functional teams and business stake holders to understand and meet their requirements and connecting with Microsoft to resolve the technical issues and optimize the cloud services.
- Maintaining documentation of configurations, procedures, system changes and generating performance and status reports for management and stakeholders.

Software Intern May 2020 – June 2020

Core el Technologies Bangalore, India

- Worked on a project involving data analysis and visualization and was tasked with cleaning and processing a large dataset using python libraries like Pandas and NumPy.
- Handled missing data effectively and created insightful visualizations using Matplotib and Seaborn.

TECHNICAL SKILLS

- **Languages/ Database:** Python, SQL, Flutter, UML, Shell Scripting, Bash.
- **Frameworks/Libraries:** Pandas, NumPy, Matplotlib
- **Developer Tools:** Visual Studio, Eclipse, Jupyter notebook, Linux, Git, MATLAB, HANA DB Studio, ServiceNow
- **Skills:** Agile Software Development, Data Structures and Algorithms, Object Oriented Design / Programming, CI/CD Pipeline – Jenkins, Terraform
- **Cloud Providers**: Microsoft Azure, AWS, GCP
- **Containerization and Orchestration:** Docker & Kubernetes

PROJECTS

Underwater object detection using Hybrid K Tree Algorithm | *MATLAB, Python* Jan 2021 – May 2021

- A hybrid ML algorithm was proposed to detect various underwater objects present in underwater Images.
- The algorithm detects the objects with almost 98% accuracy based on the shape, contour and the area of the blob in the image.
- The collected underwater images undergo HSV color space transformation, threshold segmentation and then detecting the lump, finally matching the features with the data to predict the object in the image.
- This algorithm uses colored image processing, segmentation, and edge detection techniques.

Obstacle detection and collision avoidance robot | *ARDUINO, Microcontroller* Oct 2019 – Nov 2019

- Developed a prototype of chassis board with Ultrasonic sensors and Arduino UNO mounted on it. Using these the chassis detects any Obstacle less than 15cm in its path using the ultrasonic sensors during its motion and avoids collision by moving its path.
- Used Arduino sketch written in Arduino Programming Language executed on a Arduino microcontroller board, that controls the function of the chasis.