Name: Hemanth Lanka
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LinkedIn: www.linkedin.com/in/hemanthlanka1996

SUMMARY

- Having Total 3.11+ years of experience in Databricks, IoT and backend development.
- Having Good experience in Databricks, PySpark, Spark Scala, PostgreSQL, Python, Node.js, Swagger, Postman, Azure IoT Hub and AWS IoT.
- Responsible for direct interactions with the client.
- Ability to learn quickly new technologies and methodologies.
- Seeking a challenging career in a good organization where my ability and soft skills can be utilized and improved.

TECHNICAL SKILLS

Operating System	Windows, Linux, Unix
Programming Languages	Python, Spark Scala, PySpark, Arduino C, OpenCV, Node.js
Databases & Tools	PostgreSQL, Postman, Swagger, Git, Jira, Visual Studio Code, pgAdmin
Data Analysis Platform	Databricks
Cloud Platforms	Azure, AWS
IoT Hardware	Raspberry Pi, Arduino

EMPLOYMENT HISTORY

Name of the Company	Designation	From	To
ERICSSON India Global Services PVT LTD, Bangalore	Data Engineer	Aug-2021	Till Date
Cognizant Technology Solutions, Chennai	Associate	Dec-2018	Aug 2021

EDUCATION

Degree	Bachelor of Technology
College/University	Siddharth Institute of Engineering and Technology, Puttur
Course	Electronics and Communication Engineering (2014 - 2018)
Percentage	74.32%

EXPERIENCE SUMMARY

PROJECT PROFILE

Project Title	Light House Supply Planning
Duration	Aug 2021 – Till Date
Company/Location	ERICSSON India Global Services PVT LTD, Bangalore
Programming Languages/ Solution Environment	Azure Databricks, PySpark, Azure DevOps, Confluence, Jira, OutSystems

PROJECT DESCRIPTION

In Light House Supply Planning we process the material data based on Plants and customers to get the forecast data and estimated delivery days to deliver the products. The processed data will be shown in UI by Day, Week and Month.
The processed data helps the user to get clear understanding on delivery information.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- ➢ Performed manual analysis on the raw data.
- ➢ Build Data Drift on the data to check the errors in the data by monthly job schedules.
- ➢ Perform Batch processing on Delta tables and store the data again Delta tables.
- ➢ Day, Week and Month Job schedulers are created.
- ➢ Performed Unit Testing on the data.

PROJECT PROFILE

Project Title	Reventage
Duration	Jun 2019 – Aug 2021
Company/Location	Cognizant Technology Solutions, Chennai
Programming Languages/ Solution Environment	AWS Databricks, Spark Scala, AWS RDS (PostgreSQL), S3, Java, Swagger, AWS Kinesis, AWS Secret Manager, AWS X-Ray, AWS Cloud Watch, AWS EC2, AWS CodePipeline, AWS CodeCommit, ActiveMQ, Niagara, DGLux, Git, SonarQube, Jira, figma.

PROJECT DESCRIPTION

Reventage is a building management system. Sensors like HVAC, gas, steam, electric etc. are installed in buildings for all properties. By using complex event processing the sensors failures will be monitored and tickets will be created. The processed sensors data will be shown in UI by Hour, Day, Week, Month and Year.
The processed data helps the user to get clear understanding on usage and the historical comparison in UI helps user for future optimization.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- ➢ Performed manual analysis on the raw data from the sensors.
- ➢ Understanding the Business Requirements.
- ➢ In Databricks the structured streaming source is AWS Kinesis.
- ➢ The structured streaming data processed and stored in the PostgreSQL database.
- ➢ Performed Hour, Day, Week, Month and Year aggregations on the raw data based on building and property.
- ➢ Written Complex Event Processing conditions for sensor failures and raised Alarms.
- ➢ Reduced the AWS Databricks cost in streaming and Handle the Database performance.
- ➢ Performed Unit Testing on the data.
- ➢ Provided near real time aggregated data.

PROJECT PROFILE

Project Title	AVAG - Client Portal Develop
Duration	Dec 2019 – May 2020
Company/Location	Cognizant Technology Solutions, Chennai
Programming Languages/ Solution Environment	Node.js, Swagger, Git, Postman, Azure Database for PostgreSQL, Azure DevOps, Azure WebApp, Azure App Service, React.js, Slack, Confluence, Jira, InVision, Zeplin.

PROJECT DESCRIPTION

AVAG is a transportation company in Germany. It has lot of transportation vehicles for pickup and dropping. User can choose the vehicle based on the delivery items and number of vehicles for pickup and dropping. User can provide suggestions to the driver for pickup and delivery. User can edit or delete pickup or delivery request and view the historical bookings in the portal.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- ➢ Analysis of the specifications provided by the client, Requirement gathering.
- ➢ Build Rest API's in Node.js for login, reset password, pickup and drop locations and vehicle selection.
- ➢ Performed Unit testing.
- ➢ All the vehicles, clients and booking information maintained in PostgreSQL.

PROJECT PROFILE

Project Title	IWG plc
Duration	July 2019 – Dec 2019
Company/Location	Cognizant Technology Solutions, Chennai
Programming Languages/ Solution Environment	Azure Databricks, PySpark, Scala, Proton API, AKS, Data Factory, Data Lake, Azure PostgreSQL, Data Warehouse SQL, Redis cache, Event Grid, MQTT Broker, Azure WebApp, Footfall Cam, LoRa gateway, Power BI.

PROJECT DESCRIPTION

IWG plc, formerly Regus, is a multinational corporation that provides serviced offices to clients on a contract basis. The power and Energy savings in an office reduced through the occupancy data. When the occupancy is less then HVAC, lights and other devices will be turned off. Based on the outside temperature the inside temperature of the office will be adjusted. The predictive power analysis for the future data will be provided based on the occupancy and employee true time data.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- ➢ Involved in scheduling jobs in Azure Databricks through Data Factory.
- ➢ Performed Hour, Day, Month and Year aggregations on the sensor data.
- ➢ All the processed data will be stored in PostgreSQL.
- ➢ Performed Unit testing.
- ➢ Provided near real time aggregated data.

PROJECT PROFILE

Project Title	Home Automation
Duration	Jan 2019 – Mar 2019
Company/Location	Cognizant Technology Solutions, Chennai
Programming Languages/ Solution Environment	Python, OpenCV, Raspberry Pi, IFTTT, Adafruit.IO, Relay, Gas Sensor, Web camera, Servo motor.

PROJECT DESCRIPTION

Home Automation will control Lights, Fans, TV and Water Tank filling through voice commands. The Google Assistant is used to give voice commands. If the room temperature is more than 20 degrees then the fans will turn on automatically.
Through voice commands the water tank can be filled through the required level. When there is any gas leakage, the power will be shut down in the home and the doors will be opened automatically. The CC camera will detect the face of a stranger, if the stranger is known person, then the gates will be opened or else a message will be sent to the house owner.
The Home Automation provides security and reduce man efforts through voice commands.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- ➢ All the sensors will be connected to the Raspberry pi.
- ➢ Sensor's code written in Python and which runs in the raspberry Pi.
- ➢ OpenCV module used to detect the human face.
- ➢ All the device readings can be seen in Adafruit.IO dashboard.
- ➢ The devices can be controlled through dashboard and google Assistant.
- ➢ IFTTT is used as broker between Adafruit.IO and Google Assistant.
- ➢ Performed unit testing on the sensors data and connections in the board.

PROJECT PROFILE

Project Title	Smart Shopping Trolley
Duration	Feb 2018 – Apr 2018
Company/Location	College Final year project, Puttur
Programming Languages/ Solution Environment	Python, HTML, CSS, Raspberry Pi, Touch Screen, Barcode Reader, Barcodes, Push Button

PROJECT DESCRIPTION

The automated billing shopping trolley was implementing using Barcode techniques on automation. Through this technique the product can be scanned in any position, information about the product is stored in the Barcode tag. Raspberry pi processor is using for controlling the devices.
In LCD touch screen the user can able to see the available products, discounts in that mart and a navigator to direct for a particular product. In LCD display the user can see the selected products, discounts for the selected products and the final bill. The user can pay the bill by the generated QR code in the LCD screen.

At billing counter customer may face many problems like waiting and they don't know even they have sufficient money for the products for their purchase. The billing process at the counter is a time consuming and also need more human resource in the billing section.
Through the Smart Shopping Trolley, the purchase time and human resource can be reduced.

ROLES AND RESPONSIBILITIES IN THE PROJECT

- All the devices will be connected to the Raspberry pi.
- Sensor's code written in Python and which runs in the raspberry Pi.
- HTML and CSS is used to design the Shopping site and navigator to see in the Cart Screen.
- After the Shopping the user can pay through the mobile using QR code generated in the screen.
- Performed unit and integration testing.

PERSONAL DETAILS

- DOB : 07-01-1996
- Gender : Male
- Father Name : Narayana Rao Lanka
- Mother Name : Madhuri Lanka
- Martial Status : Single
- Religion : Hindu
- Nationality : Indian
- Hometown : Tiruchanur, A.P

LANGUAGES

- TELUGU
- ENGLISH

INTERESTS

- GYM
- HIKING
- Working in multiple technologies.

CERTIFICATIONS:

1. Microsoft Azure Databricks for Data Engineering by Coursera
2. Apache Spark Programming with Databricks by Databricks academy
3. Data Engineering with Databricks by Databricks academy

REFERENCES

Available on Request.