Hemanth Sai Somarouthu

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SUMMARY

I am a highly motivated Master's student graduating in May 2024 with a strong background in machine learning, full-stack development and data engineering with 3+ years of Experience in total. I am actively seeking full-time roles, proficient in software development, problem-solving, and eager to contribute innovative solutions to dynamic teams.

EXPERIENCE

Research Assistant, Lamar University   *Jun 2023 – Present*

• Implementing a fast algorithm &Using segmentation technique is presented to analyze AIS data and separate them into tours and trips. The proposed algorithm also finds vessels directions as inbound, outbound, and stop using ML.

Software Engineering Internship, Dallas Review Consultancy   *Jun 2023 - Aug 2023*

•Developed and maintained scalable data pipelines and building out new API integrations to support data models
•Worked on company data models and using spark & sparkSQL, Azure Synapse to populate data models.

Front End Developer and Data Engineer, Tata Consultancy Services   *Aug 2020 - Jul 2022*

a)Front End:-

• Expertise in Java/JavaScript frameworks, HTML/CSS/JavaScript, Angular, Springboot, and Django programming.
• Developed REST API, developing front-end applications, to generate responsive, interactive, and high-performing web apps. Debug and unit-test application code
• Generating non-blocking code using advanced approaches like multi-threading.

b)Data Engineer:-

• Moved SQL and on-premise databases to Data lake store using Azure Data factory.
• Used Pyspark and Spark-SQL to build Databricks Spark apps for data extraction, processing, and aggregation in Big-Data Hadoop, Kafka, and Azure SQL Data Warehouse to examine usage trends. Developed stored procedures and triggers in SSIS, T-SQL. Created REST API ETL mapping for several feeds.
• Skilled in designing and constructing SQL Server, SSIS, SSAS, OLAP Cubes, Star Schema, and Snowflake Schema.

Android HMI Developer and Infotainment Developer, People Tech Group Inc   *June 2019 – July 2020*

• Managed the complete software development life cycle for Infotainment software, including requirements, system design, development, implementation, and maintenance using Java in Android Studio.
• Contributed to architecture, requirements, design, code/ test, reviews in Scrum/Agile software development

PROJECTS

AIS-analytic-method using ML technology

• AIS is a marine safety and navigation system that automatically delivers AIS records every 2-30 seconds based on vessel speed. The above features are predicted using ML.

Smart campus project design and implimentation on raspberry pi on IOT platform by python approach

• A Smart campus is intended to connect the worldwide education resources to faculty and students contributing in intellectual development using VOIP and Full stack technology.

Designing and Development of VOIP(Voice over internet protocol)

• In VOIP, a network is established over WIFI, allowing devices to communicate and make calls (Audio+Video+ messages) without a telecom network. IVRS is utilized to make the user experience comfortable

EDUCATION

Masters of Science, Computer Science   *Aug 2022 - May 2024*
    Lamar University   GPA: 4.0
Bachelor of Technology, Electronics and Communication Engineering   *Jul 2015 - May 2019*
    Jawaharlal Nehru Technological University   GPA:3.5

SKILLS

Environments and Development Tools Familier with: Windows, Ubuntu, Linux, MacOS,Microsoft Office, Git, Eclipse, VScode, Visual/Android Studio, Xcode, Eclipse, Netbeans, Google Colab.
Programming Languages & Frameworks : Python,Java,Javascript,Bash,Apache-Spark/Kafka Angular,NodeJS/ExpressJS
Cloud and Databse Management Skills: MySQL, SQLite, AWS, Microsoft Azure, snowflake, SQL server,ETL Pipeline, AWS   Redshift,DynamoDB, Azure Data lake, Data factory,Azure Databricks, Azure SQL database, Azure SQL Datawarehouse, Python, Spark SQL,MSBI (SSIS), Data Visualization,Data Migration,SQL Server programming.
Machine Learning:Predictive Analysis,Statistical Modeling,Data Mining,Clustering & Classification,Data Analytics, Quantitative Analysis,Web Scraping,ML Algorithms,Model Development.