

# Vamshidhar Reddy Parupally

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## Education

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- **San Jose State University [CGPA : 3.9]** San Jose, California  
*Master of Science in Software Engineering.* Jan 2022 - Dec 2023  
*Courses: Cloud Technologies, Data Mining, Enterprise Distributed System, Enterprise Application Development, Virtualization Technologies.*

## Skills Summary

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- **Programming Languages:** Java, Javascript, Python.
- **Technologies:** Kafka, Spark, NodeJS, ReactJS, REST API, HTML, CSS, GIT, JIRA.
- **Data Base:** SQL, MongoDB, Vertica DB, Cassandra
- **Others:** AWS,Docker, Numpy, Matplotlib, Pandas, Scikit learn, seaborn, LSTM, Light GBM.

## Experience

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- **TCS - Client Apple** Hyderabad, India  
*Software Developer* Jul 2020 - Dec 2021
  - Reduced data administration time by 30% while guaranteeing the continuance and improvement of services by building an end-to-end data management solution for the Apple sales team using React JS and Vertica db.
  - Developed Kafka and Spark pipeline to handle real-time streaming data, apply business logic and send data to appropriate destination tables in Cassandra and relational database.
  - Achieved lower processing time by developing low latency services using the Java framework and by caching mechanisms. Introduced smart excel based uploads which help user to detect errors in excel files even before uploading the data. This has saved 60% of user time for entering data.
  - Created metrics dashboard using Splunk to monitor health of application and devised triggers to warn about outage to cut down manual effort by 50%.

## Academic Projects

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- **Autonomous Drone System**
  - Facilitated utilization of drones for agricultural purposes by developing a cloud based autonomous drone rental system.
  - To show the capability and mapping coordinates, cloud mission planner and Ardu pilot drone simulator were used.
  - UDP port was established for communication, and drones were led by way point information. Enhanced the application reliability with real time data visualization and monitoring.
  - **Technologies used:** Cloud Mission Planner,Ardu Pilot Simulator, React JS, Spring Boot, Bootstrap, Sockets.
- **Walmart Sales Prediction**
  - Developed a model to predict the future trends of the sales in Walmart based on the day of the week using Regression and Time Series models.
  - Performed data pre-processing and cleaning along with feature selection and feature extraction.
  - Built time series model using LSTM and regression model using Light GBM.
  - Improved the accuracy of the model by 10% using PCA and by hyper tuning using Grid Search CV.
  - **Tools and Technologies used:** Python, LSTM Model, Regression Model, Light GBM Model, Google Co-Lab.
- **Airport Management System**
  - Implemented an airport management system with real-time management of arrivals and departures.
  - Handled dynamic gate assignment and terminal management for the inbound and outbound flights.
  - Utilized JUnit to perform unit testing on the application
  - Utilized AWS auto scaling groups and load-balancer to handle the application load.
  - **Technologies used:** React JS, Node JS, Bootstrap, JUnit, AWS.

## Clubs

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- **Tau Beta Pie :**
  - Member of Tau Beta Pie national engineering honor society

## Hobbies

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- Bowling, Reading and Singing