

Vamshidhar Reddy Parupally

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WORK EXPERIENCE

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Tata Consultancy Services [Apple]

Hyderabad,Telangana, India

Systems Engineer

July 2020 – December 2021

- **Cascade:** 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**.
- 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.
- Leveraged AG grid to display the table data efficiently with **lazy loading** and **debouncing** to reduce application loading time by **2 seconds** and leveraged **D3 JS** to create visualizations for 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%**.
- 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.

EDUCATION

SAN JOSE STATE UNIVERSITY [CGPA : 3.9]

San Jose, CA, USA

Master of Science in Computer Software Engineering

January 2022 – December 2023

(Cloud Technologies, Data Mining, Enterprise Distributed System, Enterprise Application Development, Virtualization Technologies)

Anurag Group of Institutions [CGPA : 3.8]

Hyderabad, Telangana, India

Bachelor of Technology in Information Technology

August 2016 – June 2020

(Object Oriented Programming, Database Management, Operating Systems, Design and Analysis of Algorithms, Data Structures)

SKILLS

Programming Languages	: Java, JavaScript, Python
Databases	: SQL Server, MongoDB, MySQL
Frameworks	: React JS, RESTful API, Node JS, Angular
Web Technologies	: HTML5, CSS, Redux, Apache Kafka, UI/UX
Cloud Technologies	: Dev Ops, AWS (EC2, RDS, S3), Docker, GCP
Software Methodologies	: Agile SCRUM
Tools, Servers, and Others	: Apache Kafka, Git, Visual Studio Code, Sonar Qube, Maven, Postman, Splunk, Jenkins, VMware workstation, Vagrant, Ansible, Google Colab, Mockito, Docker

PROJECTS

Autonomous Drone System:

Fall 2022

- 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.

E-Diligence Application:

Spring 2022

- Implemented real-time eDiligence project which is a AI enabled application that helps real-estate representatives mitigate risks.
- Devised intuitive user interface for application and enhanced the ease of use by smart auto-fills.
- Real time data was displayed in application using graphs, improving user experience.
- Utilized GitLab to implement CI/CD pipelines and deployed docker images on digital ocean droplets.

Technologies used: React JS, Node JS, Bootstrap, D3JS.

Walmart Sales Prediction:

Spring 2022

- Built a time series model and regression model to predict future trends of sales in Walmart based on day of the week.
- Performed data pre-processing and cleaning along with feature selection and feature extraction.
- Improved accuracy of model by 10% with PCA and by hyper tuning using Grid Search CV.

Tools and Technologies used: Python, LSTM Model, Regression Model, Light GBM Model, Google Co-Lab.