Vamshidhar Reddy Parupally

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Education

San Jose State University [GPA: 3.9]

Master of Science in Software Engineering.

Anurag Group of Institutions [GPA: 3.74]

Bachelor of Engineering in Information Technology.

San Jose, California Jan 2022 - Dec 2023

Hyderabad, India Aug 2016 - June 2020

Skills Summary

• Programming Languages: Java, Javascript, Python, SQL, TypeScript.

- Web Development: AngularJS, ReactJS, NodeJS, REST API, HTML/CSS, Flask, Spring Boot.
- Data Base: Relational DB, Mongo DB, Vertica DB, Cassandra, and No SQL.
- Others: AWS, Azure, GCP, DevOps, Docker, CICD, SonarQube, JUnit, Jenkins, Pandas.

Experience

Amazon Sunnyvale, California SDE Intern Summer 2023

• Designed a solution for in-memory session management to enhance Alexa's speech request session handling.

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 Through the implementation of in memory session management, suggestfully reduced the relience on Dynama D.
- Through the implementation of in-memory session management, successfully reduced the reliance on Dynamo DB calls and helped the Multitasking team save \$30,000 per annum on DB reads and writes.
- o Tools and Technologies: Spring boot, Java, Google Guice, AWS (EC2), Dynamo DB.

Tata Consultancy Services

Hyderabad, India

2020 - 2022

Software Developer

- Developed **Kafka** and **Spark pipeline** to handle the large number of orders during NPI(New Product Introduction), and developed **RESTful APIs** using **Java Spring Boot framework**.
- Reduced data administration time by 30% by building an end-to-end data management tool to assist **Apple** sales team, using **React JS**, **Java**, **Cassandra** and **Vertica db**.
- Handled User management, authentication by leveraging JSON Web token, and session management with Redis cache.
- Developed a time series model using LSTM algorithms to analyze the no-show rate of the appointments at an Apple store.
- Tools and Technologies: Spring boot, Java, React JS, Angular, Kafka, AWS (EC2, S3, Load Balancers), Git, Maven, Jenkins, Cassandra DB, Spark streaming, Docker, Redis cache, JSON Web token.

Academic Projects

- Anomaly detection in PV panels using YOLO
 - Built anomaly detection system using YOLO V8 and integrated ISAAC ROS image preprocessing pipeline.
 - o Created an image annotator for efficient annotation of images in YOLO format using Python and Streamlit.
 - Used jetson developer kit and integrated camera, enabling users to stream and monitor panel defects.
 - o Technologies used: Python, YOLO V8, NVIDIA ROS Platform, Jetson Developer Kit, React JS, Node JS, AWS S3.
- Autonomous Drone System for Agriculture
 - o Developed an autonomous drone system, providing farmers with a streamlined farm monitoring and maintaining solution.
 - Utilized cloud mission planner and Ardupilot simulation to simulate the flight path and ensure efficient drone operation.
 - o Utilized the UDP, UDPCI ports, and MAV Link module for communication between drones and the ground control system.
 - o Technologies used: Cloud Mission Planner, Ardu Pilot Simulator, React JS, Spring Boot, Bootstrap, Sockets, C++.
- Open AI Integration Salary Analysis Dashboard
 - o Created salary analysis dashboard using Stack Overflow Developer Survey data and OpenAI GPT turbo model.
 - Leveraged data preprocessing techniques to clean and transform survey data, ensuring high-quality and reliable analysis.
 - $\circ \ \ \text{Implemented data visualization techniques to create visually compelling charts, and graphs, for effective salary insights.}$
 - o Collaborated with team to design and optimize the salary analysis dashboard, delivering actionable insights to stakeholders.
 - o Tools and Technologies used: Python, Open AI Model, Regression Model, GPT Turbo 3.5, Google Co-Lab, Streamlit.

Clubs and Accomplishments

- Tau Beta Pie:
 - o Initiation Officer and member at Tau Beta Pie, a national engineering honor society
 - o Public relations manager at India Student Organization, SJSU
 - o Member of IEEE student chapter, Hyderabad
- Accomplishments:
 - o Ranked 251 (national wide) in CodeVita 2017,a programming contest hosted by TCS