D Venkata Sreekar Reddy

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Software Development Engineer 2
GitHub: dvsreedy
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Education

JSSSTU, Mysore
Bachelor of Engineering
CGPA : 9.19
Aug 2017 - May 2021

BHASHYAM JUNIOR COLLEGE, Guntur
PUC
Percentage : 95.5
Aug 2015 - May 2017

Skills

Tools	Ansible, Grpc, Docker, Kubernetes, Kafka, Rabbitmq
Languages	C, C++, Python, Go
Frameworks	DjangoRestFramwork, cadence,taskflow

Hobbies

Hobbies	Badminton, Basketball, Table Tennis, Movies, Cricket

Technical Experience

Hewlett Packard Enterprise (HPE) **September 2021 — Present**
Software Development Engineer **September 2021 — April 2023**

- Designed and implemented agentless communication workflows using Ansible to manage servers and automate backup processes for Microsoft SQL Server databases.
- Developed an orchestrator service to manage complex workflows for protecting Microsoft SQL databases, improving operational efficiency.
- Spearheaded the Software Bill of Materials investigation, recognizing its pivotal role in preemptively addressing vulnerabilities and ensuring compliance.
- Developed a streamlined integration with GitHub Actions, enabling proactive identification and mitigation of issues in the code stage before production.

Software Development Engineer 2 **April 2023 — Present**

- Established a versatile and reusable framework for automated testing, and implemented nightly runs for testing, effectively preventing regression issues during product releases.
- Implemented the most efficient transaction log backup workflows for standalone MSSQL databases and Availability Group MSSQL databases, ensuring comprehensive coverage.
- Implemented a stateless cloud orchestration service using the Cadence framework in the Go language.
- Contributed to developing an AI-powered virtual assistant for HPE GreenLake. Utilized Large Language Models (GPT from OpenAI) and LlamaIndex to design a chatbot solution that enhances customer support and user experience. Successfully demonstrated the system's ability to provide accurate, timely solutions to customer queries through a proof of concept.

Academic Projects

Driver Drowsiness Detection

- Developed a module to detect driver drowsiness using image processing.
- Used dlib libraries to detect facial features of the driver. Sleeping and yawning are detected using the features extracted by dlib.
- Thresholds are set based on biological research and the user is alerted by playing audio as well as the driver is recommended to take a break, when sleeping or yawning is detected.

Cricket Match outcome predictor

- Built Cricket match outcome predictor using Neural Networks, to predict the winner of the cricket match
- Uses various features of each Cricket match such as toss winner, hosting team, and venue factors to predict the outcome of the Cricket match.

For Kisan

- Built an e-commerce website for farmers to sell their products online, Eliminating the need for middlemen between the farmers and customers.
- Implemented an authentication module where farmers and customers can sign up and log in through their mobile numbers.
- Farmers are provided with easy-to-use workflows to add, delete, and modify their products and their quantities.

JCE FOODIE

- Built an Android application for students to get to know about all the food places around our college and also about various items on the menu.
- Also integrated Google Maps to the app, to make it easier for newcomers to visit the place. Also synced the user ratings to the cloud using Google firebase.