SASANK REDDY

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EDUCATION

- **SAN DIEGO STATE UNIVERSITY (**Masters in Computer Science) **Aug 2024-Jul 2026**
- **GITAM UNIVERSITY** (Bachelor of Technology in Computer Science and Engineering) **Jul 2019-May 2023**
- **Relevant courses:** JAVA, Analysis of Algorithms, Data Structures, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Machine Learning, Artificial Intelligence.

TECHNICAL SKILLS

- **Programming Languages:** JAVA, SQL, PYTHON
- **Tools/Technologies Used:** Data Structures and Algorithms, DevOps**,** OOPS, Docker, Jenkins, Ansible, Kubernetes, API, Microservices, Continuous Integration and continuous delivery (CI/CD), Terraform, MongoDB, AWS EKS, GCP GKE.

PROFESSIONAL EXPERIENCE

PUBLICIS SAPIENT, BENGALURU **Jan 2024 – Present**
System Engineer

- Led the way in creating the microservices design, which improved scalability and modularity by utilizing OOP concepts. REST APIs were put into place to enable smooth communication between microservices, centralized service discovery and managed API traffic by using an API gateway and service registry, guaranteeing effective connectivity.
- Acquired proficiency in orchestrating CI/CD pipelines with Ansible and Jenkins, resulting in accelerated time-to-market and streamlined deployment processes. Developed skills in containerizing applications with Docker and managing orchestrations using Kubernetes.

  SUSTAIN ENTERPRISE PROJECT
- Contributing the development of Sustain Enterprise project at Publicis Sapient, an innovative internal project aimed at automating and optimizing the workflows of support engineers.
- Involved in deploying, managing and migration of Kubernetes clusters from AWS EKS to GCP GKE ensuring scalability, reliability and optimal performance enhancing the cloud infrastructure. Configured Kubernetes RBAC using roles, role bindings, and cluster roles to manage and restrict IAM user access across namespaces and clusters, utilizing Terraform and Kubernetes API.

HITACHI DIGITAL SERVICES, BENGALURU **Jan 2023 – Aug 2023**
DevOps Engineer

- Designed strong continuous integration/continuous delivery (CI/CD) pipelines with Jenkins to automate software deployment, reduce human error, and speed up release cycles.
- Made use of Docker to containerize applications, maximizing scalability and deployment effectiveness in a variety of settings. Container orchestration using Kubernetes.
- Used Ansible to implement infrastructure as code, enabling effective and uniform configuration management across environments. Gained practical experience with cutting-edge DevOps techniques and tools.

PROJECT WORK

VEHICLE FLEET AND RENTAL MANAGER (Moto-Manager)

- Designed and developed a comprehensive Vehicle Management System, empowering users to efficiently manage fleet operations and access rental services, employing microservices architecture to enhance service isolation.
- Implemented end-to-end continuous delivery pipelines using CI/CD tools, ensuring seamless deployment and updates for enhanced user experience. Leveraged DevOps practices to streamline development processes and enhance system reliability, scalability, maintainability and incorporated Ansible playbooks for efficient infrastructure configuration management.

EMOTION RECOGNIZATION USING MACHINE LEARNING

- Implemented Python and machine learning algorithms, including CNN, for facial expression recognition and analyzing online activities. Leveraged these techniques to enhance child engagement in virtual learning environments. Achieved accuracy of 87%. Published research papers in the international Journal of Innovative Research [October,2023]

TRIP COORDINATION PLATFORM (WANDERWELL)

- Wander Well is a trip planner and coordinator which offers the users to plan and organize trips. The platform serves both individual and group travelers in finding companions, allowing users to schedule or register to a trip, manage accommodations and expenses. Dedicated features for trip agencies i.e., Packages, collaborations with hotels , travels and promotions.
- Wander Well uses microservices architecture with RESTful APIs and SQL Databases to manage data.

ACHIEVEMENTS

Received **Best Project Award** for vehicle management system developed during training period at Publicis sapient. Distinguished as the only project to implement end-to- end continuous delivery using DevOps CI/CD practices and pioneering the implementation of automated incident creation in ServiceNow, enhancing operational efficiency and incident management capabilities.