

# SASANK REDDY

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## EDUCATION

### Masters of Science, Computer Science

Aug 2024 – May 2026

San Diego State University

**Coursework:** Analysis of Algorithms, Database Theory Implementation, Machine Learning, Principles and Techniques of Data Science, Computer Networks and Distributed Systems, Cloud Computing, Web Technologies

### Bachelor of Technology, Computer Science

July 2019 – Apr 2023

GITAM University

GPA: 3.8/4.00

## SKILLS

- **Programming:** JAVA, JavaScript (ES5/ES6), SQL, Python, C, C++, JSON, HTML, XML, Tailwind CSS, Bootstrap, TypeScript
- **Framework:** ASP.Net, MVC, Node.js, Oracle DB, React.js, Spring, MySQL, PostgreSQL, Mongo DB, MS SQL Server
- **Software Engineering:** Data Structures, Algorithms, object-oriented programming, Web development, REST API, Microservices, System Design, Problem solving, Mobile App Development, AGILE, SDLC
- **DevOps and Cloud Tools:** AWS (EKS, EC2, S3, Lambda, RDS), GCP (GKE), Docker, Jenkins, Ansible, Kubernetes, Terraform, GCP, Continuous Integration/Continuous Delivery (CI/CD)
- **Tools:** Git, Gitlab, Github, Postman, Linux, JIRA, BITBUCKET, CATS Lite, Selenium, version control

## EXPERIENCE

### Software Development Engineer, Publicis Sapient

Jan 2024 – Aug 2024

- **SUSTAIN ENTERPRISE PROJECT(STEP)**, an internal development of publicis sapient aimed at automating and optimizing the workflows of support engineers, resulting in a reduction of manual efforts by **80%**, by enabling the **automation of incident creation, incident correlation**, cutting down the response time by **50%**.
- Docker-based **containerization** for **MongoDB** storage, boosting deployment speed by **30%** and ensuring consistent, isolated environments for STEP's data storage.
- Directed a rapid 2-day migration of STEP's **Kubernetes infrastructure**, including **namespaces, clusters, nodes, and pods**, from **AWS EKS to GCP GKE**, achieving a **99.9%** uptime with minimal downtime.
- Developed and deployed over 10 **Terraform** scripts to enforce Kubernetes **RBAC** policies, securing access to specific clusters and actions, resulting in a 40% increase in team security compliance.
- Developed custom **Java and Selenium** scripts to extract and standardize service maps across 5+ client environments, reducing manual data processing time by **50%** and accelerating data insights.

### Application Engineer Intern, Hitachi Digital Systems

Jan 2023 – Aug 2023

- Enhanced **CI/CD** pipelines by integrating Docker, Kubernetes, Terraform, Jenkins, and Ansible, improving deployment efficiency by 40% and minimizing **release cycle times**.
- Deployed cloud applications on AWS using **EC2, S3, Lambda, and RDS**, ensuring scalability and high availability.
- Developed and deployed **full-stack** web applications with **Spring, React JS** adhering to **DevOps** practices for seamless CI/CD, reducing manual intervention by **60%**.

## PROJECTS

### Moto-Manager: Vehicle fleet and Rental services (Individual)

View Project

- Engineered a comprehensive **Vehicle Management System** using **Java, Spring Boot, REST APIs and React**, enabling efficient management of 500+ fleet operations and rental services. Implemented a Jenkins CI/CD pipeline, automating code updates and deploying changes continuously, resulting in a 30% reduction in **deployment time** and 99% uptime.

### Emotion Recognition using Machine Learning (Team leader)

View Journal

- Implemented a **Convolutional Neural Network (CNN)** using Python for facial expression recognition, enhancing child engagement in **virtual learning environments**. Achieved an **87%** accuracy rate, with research findings published in the International Journal of Innovative Research (October 2023).

### WanderWell: Travellers Community (Individual)

View Project

- A microservice-based web app for trip planning, enabling users to schedule trips, find companions, and track expenses. Deployed a **multi-stage CI/CD pipeline**, improving project outcomes by 10% through efficient **code reviews and seamless updates**. Additionally, the integration with **ServiceNow** automated the incident creation and assignment process, streamlining issue resolution and enhancing operational efficiency by reducing **manual intervention by 75%**.

## AWARDS AND LEADERSHIP

- **BEST PROJECT AWARD** by Publicis Sapient for developing a Vehicle Management System in training period, distinguished for **E2E CI/CD** implementation and automated incident creation in ServiceNow
- Positions of Responsibility: GitHub Campus Expert (1 of 88 students globally), President of Entrepreneurs' Club GITAM (India); Microsoft Learn Student Ambassador