

SASANK REDDY

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EDUCATION

Masters, Computer Science

San Diego State University

Aug 2024 – May 2026

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

Bachelors, Computer Science

Gandhi Institute Of Technology And Management

July 2019 – Apr 2023

GPA: 3.8/4.00

SKILLS

- **Programming:** JAVA, Python, JavaScript (ES5/ES6), SQL, C, HTML5, CSS
- **Framework:** MVC, ExpressJS, NodeJS, Angular, ReactJS, Spring Boot, MySQL, MongoDB, Django, Flask, Tensorflow, OpenCV Lib, YOLOv5, PyTorch, scikit-learn, Keras, XGBoost/LightGBM, PyTest.
- **Software Development:** Multi-threading, Advanced Data Structures, Algorithms, object-oriented programming, Web development, REST API, Microservices, System Design, Problem solving, Mobile App Development
- **DevOps and Cloud Tools:** Amazon web services, Google Cloud Platform, Docker, Jenkins, Ansible, Kubernetes, Terraform, Helm, GCP, Continuous Integration/Continuous Delivery (CI/CD)
- **Tools:** Git, Gitlab, Github, k8slens, Linux, ElasticSearch, Selenium, version control, kafka, Prometheus, Grafana, DataDog.

EXPERIENCE

Software Development Engineer, Publicis Sapient

Jan 2024 – Aug 2024

- Collaborated with a 10-member cross-functional team to design and optimize the core logic, utilizing multithreading to enhance parallel processing, resulting in a **15%** increase in outcomes efficiency, **20%** acceleration of software performance.
 - Optimized legacy code by developing custom **Java** and Selenium scripts, reducing manual data processing time by **50%**.
 - Developed a **Gitlab CI/CD** pipeline to aggregate necessary configuration files from different locations into a centralized folder, required while deploying the project into the client's environment, reducing manual effort by **70%**.
 - Assisted in configuring **Kubernetes infrastructure**, from **AWS EKS to GCP GKE**, with **99.9%** uptime and minimal downtime.
 - Developed over 10 **Terraform** scripts to enforce Kubernetes **RBAC** policies, increasing in team security compliance.
- Tech:** Java, Docker, GitLab, Kubernetes (EKS, GKE), Terraform, AWS, GCP, Prometheus, Grafana, Kafka, DataDog, Linux.

Application Developer Intern, Hitachi Digital Systems

Jan 2023 – Aug 2023

- Developed and deployed **full-stack web applications** with **Spring Boot** and **React.js**, integrated complex systems like **Kafka** for real-time data streaming, **Elasticsearch** for advanced search engine, and **JWT** for secure **authentication**.
 - Optimized **CI/CD** pipelines by seamlessly integrating modern DevOps tools with version control. Integrated unit testing into the pipelines, reducing bugs by **30%** and manual intervention by **60%**.
 - Designed and deployed scalable **cloud** applications on **AWS** leveraging EC2, S3, Lambda, and RDS. Automated **infrastructure** provisioning with Terraform, ensuring high availability and fault tolerance, while optimizing resource utilization.
- Tech:** Spring Boot, React.js, Docker, MongoDB, SQL, Kafka, Ansible, AWS (EC2, S3, Lambda, RDS), CI/CD, Linux.

PROJECTS

Wandora: Travellers Community (Individual)

[View Project](#)

- Developed a web application based on my business idea to create a collaborative travel ecosystem, connecting travelers across the globe. The platform possesses great user engagement and has significant potential for market growth.
- Built using the **MERN stack**, built a multi-stage pipeline reducing **90%** manual efforts in deployment phase. Integrated **Prometheus** and **Grafana** to provide real-time insights and statistics to monitor platform usage and performance.

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

[View Project](#)

- Engineered a Vehicle Rental and Management System using **Java**, **Spring Boot**, **REST APIs**, and **React**, enabling efficient management of fleet operations and rental services. Implemented a **Jenkins CI/CD** pipeline, automating code updates. Integrated **ServiceNow** for automated incident creation, streamlining issue resolution and improving operational efficiency.

Emotion Recognition using Machine Learning (Team leader)

[View Journal](#)

- Implemented a Convolutional Neural Network (CNN) using Python for facial expression recognition, leveraging tools such as OpenCV, Matplotlib, Scikit-learn, Keras, and Pandas to enhance child engagement in virtual learning environments. Achieved an **87% accuracy** rate, with research findings published in the International Journal of Innovative Research (October 2023).

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