

SASANK REDDY

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EDUCATION

Masters, 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

Bachelors, Computer Science

July 2019 – Apr 2023

Gandhi Institute Of Technology And Management

GPA: 3.8/4.00

SKILLS

- **Programming:** JAVA, Python, JavaScript (ES5/ES6), SQL, C, HTML5, CSS, Bash
- **Frameworks:** 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:** DevOps, Amazon web services, Google Cloud Platform, Docker, Jenkins, Ansible, Kubernetes, Terraform, Helm, GCP, Continuous Integration/Continuous Delivery (CI/CD)
- **Tools:** Git, Gitlab, Github, JIRA, Linux, Selenium, version control, kafka, Prometheus, SonarQube, JUnit, PyTest.

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 an 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 automated **regression test suites** using **JUnit** and Selenium, accelerating release cycles by 40%. Led **unit, integration, and functional** testing strategies, ensuring high-quality **software delivery**.
 - Developed a **CI/CD** pipeline to aggregate the necessary configuration files from different locations into a centralized folder i.e. **AWS S3**, required while deploying the project into the client's environment, reducing manual effort by 70%.
 - Configured **Kubernetes** infrastructure, from **AWS EKS** to **GCP GKE**, ensuring 99.9% uptime and minimal downtime. Managed DNS, domains, **load balancers**, replicas, and scaling strategies for high availability and fault tolerance.
- Tools:** JAVA, Multi-threading, MongoDB, **Kubernetes**, **GitLab CI/CD**, GitHub, Security Testing, AGILE, **Linux**, **Prometheus**.

DevOps Intern, Hitachi Digital Systems

Jan 2023 – Aug 2023

- Developed and deployed **full-stack web applications** with **NodeJS** and **React.js**, integrated complex systems i.e. **Apache Kafka** for real-time data streaming, **Elasticsearch** for advanced search engine, and **JWT** for secure authentication.
 - Designed and optimized **SQL** queries for high-performance **data retrieval**, reducing query execution time by 30% and ensured seamless integration with NoSQL (MongoDB) for unstructured data handling
 - Designed and deployed scalable cloud applications on **AWS** leveraging **EC2**, **S3**, **Lambda**, and **RDS**. Automated **infrastructure provisioning** with **Terraform**, optimizing resource utilization.
- Tools:** Full Stack, NodeJS, SQL, Kafka, DevOps, Jenkins, Docker, AWS, technical documentation, Code Review.

PROJECTS

Wandora: Travellers Community (Individual)

[View Project](#)

- Developed a microservice web application based on my business idea to create a collaborative travel ecosystem, connecting travelers across the globe. Complex Integration i.e. Elasticsearch, Kafka, JWT Authentication enhancing user engagement
- 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**, **SQL** and **React**, for efficient management of fleet operations and rental services. Implemented a **Jenkins CI/CD** pipeline, Integrated Github **automating** code updates and **kubernetes** for container **orchestration**. Integrated **ServiceNow** for automated incident creation.

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