SASANK REDDY

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EDUCATION

San Diego State University

Aug 2024 - May 2026

Master of Science in Computer Science

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

Gandhi Institute Of Technology And Management

July 2019 – Apr 2023

Bachelors of Science in Computer Science

GPA: 3.8/4.00

SKILLS

- Programming: JAVA, Python, JavaScript (ES5/ES6), SQL, C, HTML5, CSS, Bash
- Frameworks: MVC, ExpressJS, Node.js, Angular, ReactJS, Spring Boot, MongoDB, PyTorch, scikit-learn.
- **Software Development:** Advanced Data Structures, Algorithms, object-oriented programming, Web development, REST API, Microservices, Problem solving, Mobile App Development, Technical documentation, Code Review.
- DevOps and Cloud Tools: DevOps, AWS, GCP, Docker, Jenkins, Ansible, Kubernetes, Terraform, Helm, GCP, CI/CD
- Developer 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
- 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, 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**, 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 of pods for high availability and fault tolerance.

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**, **Elasticsearch** for advanced search engine, and **JWT** for secure authentication.
- Redesigned and optimized responsive web pages using ReactJS, leading to a 15% increase in user engagement and a 20% reduction in page load times.
- 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.

PROJECTS

Wandora: Travellers Community (Individial)

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 **depolyment** 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 (Individial)

View Project

• Engineered a Vehicle Rental and Management System using **Spring Boot**, **REST APIs**, **SQL and React**, for efficient management of fleet 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 **IJIRCCE** (October 2023).

AWARDS AND LEADERSHIP

- BEST PROJECT AWARD by Publicis Sapient for developing an innovative and efficient web application
- Positions of Responsibility: **GitHub Campus Expert** (1 of 88 students globally), President of Entrepreneurs' Club GITAM (India); Microsoft Learn Student Ambassador