

Sanaharika Thallada

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SUMMARY

Full-stack engineer with experience building reliable, scalable software systems. Proven ability to design, develop, and deploy applications in cloud environments.

EDUCATION

Saint Louis University

Master of Science, Information Systems

Saint Louis, Missouri

Aug 2023 – May 2025

- CGPA: 3.63/4.0
- Coursework: Mobile & Web App Development, Data Visualization & Analysis, AWS, Statistics, Tech & Start-ups

EXPERIENCE

Cognizant Technology Solutions — Titan

Full-Stack Java Developer

Hyderabad

Aug 2020 – Jul 2023

- Developed and deployed highly reliable Java-based software systems for processing large datasets, resulting in a 20% increase in processing efficiency.
- Designed and implemented secure APIs using RESTful principles, ensuring seamless integration with various microservices.
- Collaborated with cross-functional teams to deliver high-quality software solutions, consistently meeting project deadlines.

Cognizant Technology Solutions

Intern – Programmer Analyst

Pune, Maharashtra

Jan 2020 – May 2020

- Contributed to the development of a web application using Java and Spring Boot, enhancing user experience and improving system responsiveness.
- Successfully resolved critical software bugs, contributing to system stability and reducing downtime by 15%.
- Gained valuable experience in agile development methodologies, collaborating effectively with senior engineers.

PROJECTS

Secure Satellite Network Simulation

March 2023 - October 2023

- Developed a highly reliable simulation environment for testing satellite network communication protocols in low earth orbit using C# and TypeScript.
- Implemented robust security measures to protect sensitive data transmitted between simulated satellites.
- Utilized AWS cloud infrastructure to manage and scale the simulation environment, ensuring high availability and performance.
- Processed and analyzed large volumes of simulated sensor data, providing valuable insights into network performance and security.

Immersive Earth Observation Platform

June 2022 - December 2022

- Designed and developed a web application for visualizing earth observation data using advanced graphics techniques and WebGL.
- Integrated machine learning algorithms to process and analyze image data, providing valuable insights into geographical patterns.
- Implemented a user-friendly interface for accessing and interacting with earth observation data, enhancing user experience and engagement.
- Deployed the application on a Kubernetes cluster using Docker containers for scalability and maintainability.

Real-time Data Processing Pipeline

January 2022 - May 2022

- Built a real-time data processing pipeline using Apache Kafka and Spark to handle high-volume sensor data streams from simulated satellites.
- Developed algorithms for data validation, cleaning, and transformation, ensuring data accuracy and consistency.
- Integrated the pipeline with a PostgreSQL database for efficient data storage and retrieval.
- Monitored system performance and implemented optimizations to improve throughput and reduce latency.

SKILLS

Languages & Frameworks: Java, C, C++, Spring Boot, Hibernate, Angular2/4/8, React, Node.js, JSP, Servlets, MVC

Frontend: HTML5, CSS3, JavaScript, jQuery, JSON, XML, XSLT

Web Services: REST , SOAP

Cloud &DevOps: AWS, Azure, Docker, Google cloud,

Tools: Jira, Confluence, GitHub, GitLab, Postman, Elasticsearch

Database: MySQL

Messaging Queues: ActiveMQ, RabbitMQ

Security: OAuth2, JWT, Spring Security

CERTIFICATIONS (UDEMY)

- Agile Project Management
- Relational Database Design
- Responsive Web Design
- Java Database Connection
- Maven Crash Course
- Spring Framework
- Build Java app with Spring MVC