

Sanaharika Thallada

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SUMMARY

Full-stack engineer with experience in Java and a proven ability to build reliable, scalable software systems.

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 high-reliability software systems processing information from hundreds of remote sensor payloads.
- Designed and implemented secure, scalable web services and networks for seamless data access.
- Improved system performance by 20% through efficient database implementation and optimization.

Cognizant Technology Solutions

Intern – Programmer Analyst

Pune, Maharastra

Jan 2020 – May 2020

- Contributed to the development of a web application, improving user experience and efficiency.
- Collaborated with a team to prototype and test new features, ensuring software quality.
- Gained practical experience in software development lifecycle, from design to deployment.

PROJECTS

Secure Satellite Network Simulation

March 2023 - August 2023

- Developed a C# and TypeScript application simulating a secure satellite mesh network for government use.
- Implemented robust security protocols, guaranteeing secure access to sensitive space-based data.
- Utilized Kubernetes for container orchestration and AWS for cloud infrastructure management.
- Successfully processed and analyzed large volumes of simulated sensor data from hundreds of virtual satellites.
- Created an intuitive user interface for real-time data visualization and monitoring.

Real-time Earth Observation Platform

October 2022 - February 2023

- Built a high-performance web application for processing and visualizing earth observation data.
- Leveraged PostgreSQL for efficient data storage and retrieval, enhancing application speed by 15%.
- Integrated image processing algorithms and machine learning models for advanced data analysis.
- Optimized application performance for use in both office and field environments using service workers.
- Successfully deployed application to a cloud environment, showcasing scalability and reliability.

Enhanced Data Processing Pipeline

June 2022 - September 2022

- Designed and implemented a new data processing pipeline using C# and Typescript resulting in a 20% reduction in processing time.
- Integrated with existing systems to ensure seamless data flow and minimize disruptions.
- Improved data accuracy through the implementation of rigorous quality checks and validation procedures.
- Successfully deployed the improved pipeline, enhancing the overall efficiency and reliability of the system.

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