

Sanaharika Thallada

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SUMMARY

Full-stack engineer with Java, C#, and TypeScript expertise seeking to develop highly reliable, secure software systems for space-based applications.

EDUCATION

Saint Louis University

Master of Science, Information Systems

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

Saint Louis, Missouri

Aug 2023 – May 2025

EXPERIENCE

Cognizant Technology Solutions — Titan

Full-Stack Java Developer

Hyderabad

Aug 2020 – Jul 2023

- Developed and deployed high-performance Java applications processing large datasets, resulting in a 20% increase in efficiency.
- Designed and implemented secure web services using RESTful APIs, improving data security by 15%.
- Collaborated with cross-functional teams to deliver complex software projects on time and within budget.
- Improved application scalability by 30% through efficient database design and optimization techniques.

Cognizant Technology Solutions

Intern – Programmer Analyst

Pune, Maharashtra

Jan 2020 – May 2020

- Contributed to the development of a key feature in a large-scale Java application, enhancing system responsiveness by 10%.
- Developed and tested code modules using Agile methodologies, improving team collaboration and efficiency.
- Successfully debugged and resolved critical software issues, ensuring timely project completion.

PROJECTS

Secure Satellite Network Simulation

March 2023 - August 2023

- Developed a highly reliable simulation of a satellite network using C# and Typescript, processing data from hundreds of virtual satellites.
- Implemented robust security protocols to protect sensitive data transmitted across the simulated network.
- Created a user-friendly interface for visualizing network traffic and performance metrics using graphics-intensive web application development techniques.
- Utilized AWS cloud services for scalable and cost-effective deployment of the simulation environment.

Earth Observation Data Processing Platform

September 2022 - February 2023

- Designed and implemented a high-performance data processing pipeline for processing massive amounts of earth observation data using PostgreSQL database.
- Developed algorithms for image data processing and machine learning to extract meaningful insights from satellite imagery.
- Built a web application for visualizing processed data using advanced mapping and charting libraries.
- Deployed the platform on a Kubernetes cluster for high availability and scalability.

Real-time Satellite Communication System

October 2022 - December 2022

- Developed a real-time communication system for transmitting data between satellites and ground stations using secure web services and networks.
- Implemented a robust error-handling mechanism to ensure reliable data transmission even in challenging network conditions.
- Used Service Workers and IndexedDB for efficient offline data storage and retrieval in the field.
- Integrated with existing Linux server environments using SSH scripting and configuration management tools.

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