

# Sanaharika Thallada

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## SUMMARY

Full-stack engineer with experience in Java and C#, seeking to leverage expertise in building reliable, scalable software systems for space-based applications.

## 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 microservices for processing large datasets from remote sensors, achieving 99.9% uptime.
- Designed and implemented RESTful APIs for seamless integration with various satellite communication systems, improving data transfer efficiency by 15%.
- Utilized Agile methodologies to deliver high-quality software solutions on time and within budget, resulting in successful project launches.

### 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, improving user engagement metrics by 10%.
- Collaborated with senior developers to troubleshoot and resolve critical production issues, reducing downtime by 5%.
- Successfully implemented unit and integration tests to ensure software quality and reliability.

## PROJECTS

### Secure Satellite Network Simulation

*March 2023 - October 2023*

- Developed a highly secure, simulated satellite network using C# and TypeScript to test communication protocols and data processing in a low-earth orbit environment.
- Implemented robust security measures to protect sensitive data from unauthorized access, exceeding industry standards for data encryption and access control.
- Optimized network performance to ensure reliable data transmission and processing, achieving a 99.99% success rate in simulated real-world scenarios.

### Real-time Earth Observation Dashboard

*November 2022 - May 2023*

- Built a real-time earth observation dashboard using a combination of Javascript frameworks and PostgreSQL to visualize and process image data from various satellite sources.
- Integrated machine learning algorithms to process and analyze image data in real-time, improving the accuracy of data analysis and interpretation.
- Developed an intuitive user interface to allow users to easily interact with the system, improving data access and analysis efficiency by 20%.

### Autonomous Satellite Control System

*June 2022 - December 2022*

- Designed and implemented an autonomous satellite control system using C# and Kubernetes, enabling remote control and monitoring of satellite operations.
- Developed a robust system architecture to ensure high availability and fault tolerance, achieving 99.9% uptime during testing and simulations.
- Integrated the system with various sensors and actuators to provide real-time feedback and control, allowing for precise and efficient satellite operation.

## SKILLS

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**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)

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