**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* *•* CGPA: 3.63/4.0

**Saint Louis, Missouri**   
 *Aug 2023 – May2025*

*•* Coursework: Mobile &Web App Development, Data Visualization & Analysis, AWS, Statistics, Tech& Start-ups

**EXPERIENCE**

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| **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, Maharastra**   
*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**

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| **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**

**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