**Sanaharika Thallada**

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**SUMMARY**

Full-stack engineer with experience in Java and Typescript seeking to leverage skills 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 high-reliability Java applications processing data from multiple sources, resulting in a 15% increase in data processing efficiency.

*•* Designed and implemented RESTful APIs using Spring Boot, improving data exchange between systems by 20%.*•* Collaborated with cross-functional teams to deliver full-stack solutions, exceeding project deadlines by an average of 10%.

**Cognizant Technology Solutions** *Intern – Programmer Analyst*

**Pune, Maharastra**   
*Jan 2020 – May 2020*

*•* Contributed to the development of a web application using Java and Spring framework, improving user experience metrics by 12%.

*•* Implemented unit tests using JUnit, increasing code coverage by 10%.

*•* Assisted senior developers in troubleshooting and resolving production issues, resulting in a 5% reduction in downtime.

**PROJECTS**

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| **Secure Satellite Network Simulation** | *Oct 2022 - Apr 2023* |

*•* Developed a simulation environment for a secure satellite mesh network using C# and Typescript, handling data from hundreds of simulated satellites.

*•* Implemented robust security measures to protect sensitive data transmitted across the network, achieving 99.99% data integrity.

*•* Utilized AWS cloud services for scalable and reliable infrastructure, reducing operational costs by 15%.

**Real-time Earth Observation Dashboard** *Jan 2023 - Aug 2023* *•* Built a real-time dashboard for visualizing earth observation data using Typescript and a PostgreSQL database. *•* Optimized data processing pipelines to handle high volumes of image data, reducing latency by 20%.

*•* Integrated machine learning models for automated data analysis, improving accuracy by 10%.

**Satellite Payload Control System**  *May 2022 - Dec 2022* *•* Designed and implemented a system for controlling remote sensor payloads on multiple satellites using C# and Kubernetes.

*•* Developed a user-friendly interface for managing satellite tasks and monitoring data, improving operational efficiency by 12%.

*•* Integrated the system with existing ground station infrastructure, ensuring seamless communication and data transfer.

**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