**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

**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-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, Maharastra**   
*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**

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| **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