**Sanaharika Thallada**

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**SUMMARY**

Full-stack engineer with experience building reliable, scalable software systems. Proven ability to design, develop, and deploy applications in cloud environments.

**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 software systems for processing large datasets, resulting in a 20% increase in processing efficiency.

*•* Designed and implemented secure APIs using RESTful principles, ensuring seamless integration with various microservices.

*•* Collaborated with cross-functional teams to deliver high-quality software solutions, consistently meeting project deadlines.

**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, enhancing user experience and improving system responsiveness.

*•* Successfully resolved critical software bugs, contributing to system stability and reducing downtime by 15%.*•* Gained valuable experience in agile development methodologies, collaborating effectively with senior engineers.

**PROJECTS**

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| **Secure Satellite Network Simulation** | *March 2023 - October 2023* |

*•* Developed a highly reliable simulation environment for testing satellite network communication protocols in low earth orbit using C# and TypeScript.

*•* Implemented robust security measures to protect sensitive data transmitted between simulated satellites.*•* Utilized AWS cloud infrastructure to manage and scale the simulation environment, ensuring high availability and performance.

*•* Processed and analyzed large volumes of simulated sensor data, providing valuable insights into network performance and security.

**Immersive Earth Observation Platform**  *June 2022 - December 2022* *•* Designed and developed a web application for visualizing earth observation data using advanced graphics techniques and WebGL.

*•* Integrated machine learning algorithms to process and analyze image data, providing valuable insights into geographical patterns.

*•* Implemented a user-friendly interface for accessing and interacting with earth observation data, enhancing user experience and engagement.

*•* Deployed the application on a Kubernetes cluster using Docker containers for scalability and maintainability.

**Real-time Data Processing Pipeline**  *January 2022 - May 2022* *•* Built a real-time data processing pipeline using Apache Kafka and Spark to handle high-volume sensor data streams from simulated satellites.

*•* Developed algorithms for data validation, cleaning, and transformation, ensuring data accuracy and consistency.*•* Integrated the pipeline with a PostgreSQL database for efficient data storage and retrieval.

*•* Monitored system performance and implemented optimizations to improve throughput and reduce latency.

**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