**Sanaharika Thallada**

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**SUMMARY**

Full-stack engineer with experience in Java and Typescript, seeking to leverage skills in building reliable, secure software systems for impactful projects.

**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 a large-scale application processing terabytes of data daily.

*•* Improved application performance by 20% through code optimization and database tuning, resulting in significant cost savings.

*•* Collaborated with cross-functional teams to design, develop, and test new features, ensuring timely delivery and high-quality results.

*•* Utilized Agile methodologies (Scrum) throughout the software development lifecycle, consistently exceeding project expectations.

**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 data management.

*•* Successfully implemented a new algorithm that improved data processing speed by 15%, leading to increased efficiency.

*•* Collaborated with senior developers to troubleshoot and resolve critical issues, demonstrating strong problem-solving skills.

**PROJECTS**

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| **Secure Satellite Network Communication System** | *March 2023 - October 2023* |

*•* Designed and implemented a secure communication system for a network of 100+ satellites using C# and Typescript, ensuring reliable data transmission in low earth orbit.

*•* Developed and integrated a real-time data processing pipeline to handle high-volume data streams from remote sensors, leveraging cloud infrastructure (AWS).

*•* Employed advanced encryption techniques and security protocols to protect sensitive data, adhering to strict government regulations.

*•* Reduced latency by 10% through efficient data compression and optimized network protocols.

*•* Utilized Kubernetes for container orchestration, enhancing scalability and resilience of the system.

**Immersive Earth Observation Platform** *September 2022 - February 2023* *•* Developed a web application using Typescript and React that provides an immersive visualization experience for earth observation data.

*•* Integrated PostgreSQL for efficient management of large image datasets, ensuring fast query response times.

*•* Implemented advanced image processing algorithms for enhanced data analysis, incorporating machine learning techniques for improved accuracy.

*•* Deployed the application to AWS, utilizing serverless technologies to optimize cost and scalability.

*•* Improved user engagement by 15% through intuitive design and user-friendly interface.

**Real-time Data Processing Pipeline**  *May 2022 - December 2022* *•* Built a real-time data processing pipeline using C# and Kafka to process sensor data from multiple sources. *•* Developed algorithms for data cleaning, transformation, and aggregation to ensure data quality.

*•* Implemented a system for alerting and notification to provide immediate feedback on anomalies.

*•* Improved data processing speed by 25% through efficient algorithm design and optimization.

*•* Successfully integrated the pipeline with various downstream systems.

**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