**Sanaharika Thallada**

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**SUMMARY**

Full-stack engineer with experience in Java and a proven ability to build reliable, scalable software systems.

**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 software systems processing information from hundreds of remote sensor payloads.

*•* Designed and implemented secure, scalable web services and networks for seamless data access.*•* Improved system performance by 20% through efficient database implementation and optimization.

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

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

*•* Contributed to the development of a web application, improving user experience and efficiency.*•* Collaborated with a team to prototype and test new features, ensuring software quality.*•* Gained practical experience in software development lifecycle, from design to deployment.

**PROJECTS**

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

*•* Developed a C# and TypeScript application simulating a secure satellite mesh network for government use.*•* Implemented robust security protocols, guaranteeing secure access to sensitive space-based data.

*•* Utilized Kubernetes for container orchestration and AWS for cloud infrastructure management.

*•* Successfully processed and analyzed large volumes of simulated sensor data from hundreds of virtual satellites.*•* Created an intuitive user interface for real-time data visualization and monitoring.

**Real-time Earth Observation Platform**  *October 2022 - February 2023* *•* Built a high-performance web application for processing and visualizing earth observation data.

*•* Leveraged PostgreSQL for efficient data storage and retrieval, enhancing application speed by 15%.

*•* Integrated image processing algorithms and machine learning models for advanced data analysis.*•* Optimized application performance for use in both office and field environments using service workers.

*•* Successfully deployed application to a cloud environment, showcasing scalability and reliability.

**Enhanced Data Processing Pipeline** *June 2022 - September 2022* *•* Designed and implemented a new data processing pipeline using C# and Typescript resulting in a 20% reduction in processing time.

*•* Integrated with existing systems to ensure seamless data flow and minimize disruptions.

*•* Improved data accuracy through the implementation of rigorous quality checks and validation procedures.

*•* Successfully deployed the improved pipeline, enhancing the overall efficiency and reliability of the system.

**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