**Sanaharika Thallada**

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| 217-775-5653 | sanaharikathallada@gmail.com | linkedin.com/in/ | github.com/proxiee |

**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 highly reliable Java-based microservices for processing large volumes of sensor data from hundreds of satellites.

*•* Designed and implemented secure, scalable web applications using Typescript and modern frameworks, enhancing user experience for earth observation data visualization.

*•* Collaborated with cross-functional teams to deliver full-stack solutions, from prototyping to production deployment and maintenance, consistently exceeding 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, improving system responsiveness by 15%.

*•* Developed and implemented unit tests, achieving 90% code coverage and reducing bug count by 20%.*•* Gained hands-on experience in Agile development methodologies, collaborating effectively with senior engineers.

**PROJECTS**

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

*•* Developed a secure communication system for satellite networks using C# and TypeScript, ensuring data integrity and system reliability.

*•* Implemented robust encryption protocols, minimizing data vulnerability and enhancing security.

*•* Utilized AWS cloud infrastructure for scalable and cost-effective deployment, reducing operational costs by 10%. **Real-time Earth Observation Platform**  *November 2022 - May 2023* *•* Built a real-time platform for processing and visualizing earth observation data, leveraging image processing and machine learning techniques.

*•* Designed user-friendly interfaces for both office and field users, improving data accessibility and analysis efficiency by 25%.

*•* Integrated PostgreSQL database for efficient data storage and retrieval, enhancing system performance and scalability.

**Satellite Payload Task Management System**  *June 2022 - December 2022* *•* Developed a system for managing and tasking remote sensor payloads on multiple satellites, improving operational efficiency by 15%.

*•* Integrated Kubernetes for container orchestration, ensuring system scalability and fault tolerance.

*•* Implemented robust monitoring and alerting mechanisms, minimizing downtime and improving system reliability.

**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