

Sanaharika Thallada

☎ 217-775-5653 ✉ sanaharikathallada@gmail.com [in linkedin.com/in/](https://www.linkedin.com/in/) github.com/proxiee

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

Saint Louis, Missouri

Aug 2023 – May 2025

- CGPA: 3.63/4.0
- Coursework: Mobile & Web App Development, Data Visualization & Analysis, AWS, Statistics, Tech & Start-ups

EXPERIENCE

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, Maharashtra

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

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