

# NANDITHA T

## SOFTWARE ENGINEER

### PROFESSIONAL SUMMARY

Energetic and self-driven Junior Software Engineer with hands-on experience in Python, Java, and Flutter. Adept at building cross-platform mobile apps, backend services, and scalable software solutions. Passionate about writing clean, efficient code and eager to contribute to impactful projects in a collaborative development environment.

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### EDUCATION

Bachelor of Science in Physics | 2019 - 2022  
EKNM GOVT COLLEGE, ELERITHATTU (Nileshwar, India)

### PROFESSIONAL EXPERIENCE

TROISINFOTECHPvtLtd | Junior Software Engineer | July 2024 – Present

#### Role Overview

Contributing to the development of **computer vision and agentic AI solutions** focused on real-time video analytics for **edge and server deployments**. Involved in building **DeepStream-based pipelines, C++ inference clients**, and AI system optimizations to support intelligent traffic monitoring and automation systems.

#### Key Responsibilities

- Backend Optimization: Developed and deployed high-performance Java applications, achieving a 50% reduction in response time.
- System Scalability: Implemented Spring Framework-based solutions, increasing reliability and reducing downtime by 70%.
- API Development: Designed and integrated RESTful web services with JavaServer Faces for a seamless user experience.
- Quality Assurance: Troubleshooted and resolved critical software bugs, leading to a 15% reduction in customer complaints.
- Build Automation: Utilized Gradle for scalable build automation and Swagger for API documentation.

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## **Major Projects & Deployments**

### **Kerala Solid Waste Management Project (KSWMP)**

- Contributed to a comprehensive state-wide project for 93 urban local bodies, supported by the World Bank.
- Focused on strengthening institutional service delivery systems through automated software tracking

### **Human Resource Management System (HRMS)**

- Developed an automated system for onboarding, attendance, and performance management using Java and Spring Boot.
- Engineered the database schema using PostgreSQL to handle core HR functions efficiently.

### **Intelligent Traffic Management System (ITMS)**

- Developed an Intelligent Traffic Management System (ITMS) for real-time traffic monitoring and incident management using Flutter Web and Dart microservices.
- Integrated live video feeds, alarm systems, geo-mapping, and analytics to enable automated alerts and efficient incident response.

## **INTERNSHIP & RESEARCH**

Luminar Technolab | Data Science Intern | Aug 2022 – June 2023

- Model Engineering: Built and evaluated machine learning models including Linear Regression and Decision Trees.
- Data Preprocessing: Optimized model accuracy by 15% through advanced data cleaning using Pandas and NumPy.

## **SKILLS**

- Languages & Frameworks: Java (Spring Boot), Python, Flutter.
- Tools & Databases: PostgreSQL, MySQL, Postman, STS, GitHub.
- Core Competencies: REST API Design, Machine Learning (ML), Problem Solving.