

# Saiteja Reddy Namala

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## Professional Summary

Aspiring Software Developer with strong foundations in Python, C++, backend engineering, and scalable system design. Experienced in REST API development, authentication systems, database-driven applications, and AI-driven automation. Passionate about solving real-world problems using clean engineering and efficient architecture.

## Education

Degree	Specialization	Institute	Year	CPI
B.Tech	Computer Science & Engineering	IIIT Jabalpur	2023–2027	7.5
Intermediate	MPC (Maths, Physics, Chemistry)	Sri Chaitanya Junior College	2020–2022	98.7%

## Skills

**Languages:** C/C++, Python, Java, JavaScript, SQL, PHP

**Frameworks:** Node.js, Express.js, React.js

**Databases:** MySQL, MongoDB

**Tools:** Git, Docker, Postman, VS Code, Linux

**Concepts:** Data Structures & Algorithms, OS, DBMS, Computer Networks

**Other:** REST APIs, JWT Auth, API Debugging & Testing

## Projects

### Satellite Data Processing for Precision Agriculture (WEB-GIS)

Jan 2025 – Present

*Python, Gemini API, Sentinel-2, Leaflet.js, Google Earth Engine*

- Engineered a Web-GIS platform to analyze Sentinel-2 satellite imagery for real-time crop health, soil condition monitoring, and vegetation mapping.
- Implemented NDVI, SAVI, EVI, and NDWI vegetation index models with interactive geospatial overlays for field-level agricultural intelligence.
- Integrated Google Earth Engine pipelines to automate remote sensing data processing and reduce pre-processing complexity.
- Added Gemini AI-powered analytics module for crop recommendations, irrigation prediction, anomaly detection, and yield outlook forecasting.

### Job-Seeking Platform

Oct 2024 – Jan 2025

*Node.js, Express.js, MySQL, JWT*

- Developed a production-ready full-stack job portal supporting separate roles for students and employers, dynamic dashboards, and profile management.
- Designed modular REST APIs for job posting, resume management, job search, and messaging operations with secure middleware logic.
- Optimized MySQL queries and indexing strategy to reduce query execution time by 40% and improve API responsiveness under load.
- Implemented secure authentication using hashed credentials and JWT tokens with access control validation and protected routes.

## Achievements

- CodeChef 2star (Max Rating: 1550) with 35+ competitive programming contests.
- Solved 400+ DSA problems across LeetCode, Codeforces, and CodeChef.
- LeetCode Rating: **1578**.