

# Thakur Sai Prakash Singh

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## Summary

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Computer Science undergraduate and Full-stack developer with strong foundations in data structures and backend systems. Experienced in building scalable web applications and practical AI-powered solutions, with a keen interest in system design and problem solving.

## Education

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### MLR Institute of Technology

Bachelor of Technology in Computer Science — CGPA: 8.97

2023 – 2027 (*Expected*)

## Work Experience

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### Web Developer – Brain-O-Vision

Feb 2025 – May 2025

- Developed and customized a responsive Shopify eCommerce platform using Liquid templating and theme customization.
- Configured payment settings and optimized product collections to ensure smooth checkout workflows and scalable store management.

## Projects

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### Agent-Based RFP Automation System — Python, LLMs, Flask, React

- Designed a modular multi-agent architecture to automate enterprise RFP workflows.
- Modeled Sales, Technical, and Pricing agents as independent components with clear responsibility boundaries.
- Built a document-processing pipeline with semantic retrieval using vector databases to improve contextual relevance in generated responses.
- Improved system explainability by tracking decision ownership across processing stages.

### Chatgram — Node.js, Express.js, MongoDB, Socket.IO

- Developed a real-time messaging system using event-driven architecture and WebSocket communication.
- Structured backend services with modular APIs to support scalable and maintainable real-time communication.

### Deepfake Detection System — Python, PyTorch, Flask

- Developed a CNN-based deep learning model to classify real and deepfake media content.
- Achieved approximately 90% classification accuracy through model tuning and data augmentation.
- Trained and evaluated the model using FaceForensics++, Celeb-DF, and DFDC datasets.

### Spotify Clone — HTML, CSS, JavaScript

- Built a modular and responsive UI inspired by modern music streaming platforms.

## Technical Skills

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**Languages:** C, C++, Python, Java

**Programming:** Data Structures & Algorithms, Object-Oriented Design, Functional Programming Basics

**Backend & Systems:** Node.js, Express.js, RESTful APIs, JWT Authentication, Flask, API Design

**Frontend:** React, JavaScript, HTML, CSS

**Databases:** MongoDB, SQL, Firebase

**Tools:** Git, GitHub, Docker

**Cloud:** AWS, Google Cloud Platform (GCP), Vercel, Netlify

## Certifications & Achievements

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- First Prize — Zignasa 2024 (Deepfake Detection)
- Supervised Machine Learning — Coursera