

# Sathi Datta Vignesh Reddy

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LeetCode: leetcode.com/u/dattu145

## Professional Summary

Full-stack engineer specializing in designing scalable, low-latency MERN applications with strong foundations in system design, distributed systems concepts, and full-stack architecture. Experienced in building AI-integrated features, optimizing backend performance, and deploying production-grade cloud systems. Proven track record through hackathon wins, open-source contributions, and building platforms supporting concurrency, caching, and modular expansion.

## Experience

### Software Engineer Intern

Jun 2025 – Aug 2025

#### Yuga Yatra Retail (OPC) Private Limited

- Refactored core Node.js service modules, reducing code duplication by **30%** and improving maintainability.
- Redesigned API response flow using async pipelines and structured logging, reducing debugging time by **25%**.
- Strengthened test coverage and internal documentation, improving module reliability by **20%**.
- Introduced caching-friendly request patterns that lowered repeated DB calls by **18%**.

### Open Source Contributor

2025

#### GirlScript Summer of Code (GSSoC'25)

- Contributed **11+** merged PRs across multiple active repositories, delivering feature enhancements and bug fixes.
- Ranked in the **Top 6%** (Rank #179) among 3000+ global contributors.
- Improved code quality through refactoring, API stabilizations, and CI workflow enhancements aligned with community standards.

## Projects

### Peerflex — A Student Collaboration Platform

Mar 2025 – Present

Tech: React, Node.js, TypeScript, Supabase, Tailwind

GitHub — Live Demo

- Architected a modular multi-service platform supporting chat, events, notes, and AI workflows with plug-and-play scalability.
- Designed an SQL schema with indexes and relational mapping; load-tested to support **2k+ concurrent users** with <250ms P95 latency.
- Implemented React modular architecture and custom hooks, reducing component coupling by **40%** and improving reusability.
- Built real-time updates using Supabase channels and optimized client-side rendering for **28% faster** UI responses.

### VitaHealth — AI-Powered Health Assistant

Dec 2024 – Jan 2025

Tech: React.js, NLP, Supabase, Tailwind CSS

GitHub — Live Demo

- Developed an AI assistant handling **100+ real user queries** through NLP pipelines and third-party health APIs.
- Integrated secure Supabase auth with token hardening, reducing authentication failures by **30%**.
- Applied response-level caching and optimized API loading logic, improving page load speeds by **20%**.
- Built a clean UI architecture with reusable components, reducing CSS overhead by **25%**.

## MovieVerse — Full-Stack Movie Discovery Platform

Feb 2025 – Mar 2025

Tech: React.js, Node.js, MongoDB, TMDB API

GitHub — Live Demo

- Implemented JWT-based secure authentication and role-based user personalization.
- Redesigned MongoDB schema with proper indexing, reducing query overhead by **25%** and improving search latency.
- Enhanced TMDB-powered recommendation and search flow, boosting query responsiveness by **40%**.
- Built a caching layer for frequent API requests, reducing redundant external calls by **35%**.

## Skills

**Frontend:** React.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Component Design, Custom Hooks

**Backend:** Node.js, Express.js, REST APIs, Server Optimization

**Database:** SQL, MongoDB, Mongoose, Supabase, Indexing & Query Optimization

**Architecture:** System Design, Caching, Load Testing, Modular Design, Microservices Concepts

**Authentication:** JWT, OAuth 2.0, Session Security

**Tools:** Git, GitHub, VS Code, Postman, Vite, CI/CD Basics, Docker, Jenkins

**Deployment:** Render, Vercel, Netlify, Containerized Deployments

**CS Fundamentals:** DSA, OOP, DBMS, OS, CN

## Education

### Bachelor of Technology — Computer Science and Engineering

2022 – 2026

Mahendra College of Engineering, Salem, Tamil Nadu

CGPA: **8.4 / 10**

## Certifications

- Oracle Cloud Infrastructure Certification
- Microsoft SQL Developer — Advanced (Intellipaat)
- Postman API Fundamentals Badge
- Python Programming — Intellipaat

## Achievements

- Winner — Smart India Hackathon 2024 (AI Virtual Health Assistant)
- Highest CGPA Scorer — Department Award
- 2nd Place — Web Wizards @ TECHFEST 2024 (180 participants)
- 2nd Place — CATCH 2025 Coding Competition (230 participants)
- Winner — 24-Hour Hackathon (Team Lead)