

SIVA SANKAR REDDY ASAM

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Summary

Passionate Software Engineer with expertise in **high-performance systems**, **500+ LeetCode problem-solving**, and **end-to-end application development**. Transformed Nirmaan's legacy codebase into a blazing-fast platform via **multi-layer caching (React/Redis)**, **code refactoring (60%+ speed boost)**, and **AI-driven analytics integration**. Proficient in **React/TypeScript, Python, Golang, AWS, and System Design**. Thrive on solving complex challenges at scale while bridging cutting-edge tech (AI/LLMs) with tangible business impact. Seeking to innovate and collaborate within a high-growth product company.

Work Experience

Software Engineer | Nirmaan (Stratos Infra Technologies Pvt. Ltd.) **Bengaluru, India**
July 2024 - Present

- Architected **caching strategies** (client-side React optimizations, Redis integration via Frappe framework, server caching), slashing API latency by **55%** and improving app performance by **60%**
- Refactored **80% of legacy codebase** built by interns, implementing SOLID principles and modular design to reduce technical debt by **45%**
- Spearheaded **AI-driven analytics integration** using Python to deliver real-time insights into projects, orders, and vendor metrics, enabling data-driven decision-making
- Designed **RESTful APIs** and optimized state management for complex workflows, reducing frontend load times by **35%**

Full Stack Developer | Attica Gold Company **Bengaluru, India**
Mar 2024 - July 2024

- Built a **CCTV management system** using MERN stack, OpenCV, and Flask, processing **800+ camera streams** with <500ms latency
- Engineered AWS cloud solutions (S3, Lambda) to securely store and forward **10 TB+ footage** monthly, achieving **99.9% uptime**
- Optimized video streaming pipelines using **WebSocket** and FFmpeg, reducing bandwidth usage by **30%**
- Implemented JWT-based authentication and role-based access controls, cutting security incidents by **90%**

Skills

Languages: JavaScript/TypeScript, Python, Go, SQL
Frontend: React, Next.js, Redux, Tailwind CSS, HTML5/CSS3
Backend: Node.js, Express.js, Django, RESTful APIs, WebSocket (Socket.IO)
Databases: PostgreSQL, MongoDB, MySQL, Redis
Cloud & DevOps: Docker, AWS (S3, Lambda, EC2), Vercel, Heroku, Netlify, GitHub Actions
CI/CD: GitHub Actions, Docker, AWS CodePipeline
Tools: Git, VS Code, Postman, Figma (collaboration)
System Design: Low-Level Design (LLD), Object-Oriented Design (OOD), SOLID principles, Design Patterns (Factory, Observer)

Competitive Programming & Problem-Solving:

- 500+ problems solved** across LeetCode (420+), GeeksforGeeks, and Coding Ninjas
- Proficient in **data structures & algorithms**, system design trade-offs, and OOP/OOD best practices

Projects

Movies Database | MERN, Redux, RTK Query

- Built a full-stack movie database supporting **10k+ entries**, with an admin dashboard for CRUD operations
- Reduced API response time by 30%** via query optimization and pagination
- Implemented JWT-based authentication, achieving **99% uptime** for 500+ monthly active users.
- Tech:** React (State management: Redux + RTK Query), Node.js, MongoDB Atlas

Real-Time Chat App | MERN, Socket.IO, AWS

- Engineered a chat app supporting **1k+ concurrent users** with <200ms latency using Socket.IO
- Integrated rate-limiting and Redis caching to handle **50+ messages/sec**, reducing server load by **40%**
- Deployed on AWS EC2 with auto-scaling, achieving **99.5% availability** during peak traffic
- Tech:** React, Node.js, MongoDB, Socket.IO, AWS EC2

Education

Vivekananda Global University **Jaipur, India**
Robotics | Bachelor of Technology **July 2019 - July 2023**