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, Tanstack, Tailwind, HTML5/CSS3

Backend: Node.js, NestJS, Express.js, Django, Flask, FastAPI, RESTful APIs, WebSockets (Socket.IO), BullMQ, JWT Authentication

Databases: PostgreSQL, MongoDB, MySQL, Redis

Cloud & DevOps: Docker, AWS (IAM, S3, Lambda, EC2, RDS, ECR), Terraform(IaC), Vercel, Heroku, Netlify, GitHub Actions

CI/CD: GitHub Actions, Docker, AWS CodePipeline

Tools: Git, GitHub, VS Code, Postman, Insomnia REST, Figma (collaboration), Jira, Confluence

System Design:High-Level Design (HLD), Low-Level Design (LLD), Object-Oriented Design (OOD), SOLID principles, Design Patterns (Factory, Observer)

Competitive Programming & Problem-Solving:

- **500+ problems solved** across LeetCode (430+), 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

Aether – Collaborative Real-Time Incident Response Platform

- **Core MVP Delivery:** Architected and developed a full-stack incident management platform in an 8-week intensive sprint. The **MVP** included secure **user authentication**, **real-time** chat, **incident tracking**, and task management to support rapid incident response.
- **Real-Time Features:** Utilized **WebSockets** within a **NestJS** backend and a **React/Next.js** frontend to enable real-time messaging and live updates, ensuring a seamless collaborative experience during critical incidents.
- **Robust Data Management:** Employed **PostgreSQL** with **Prisma ORM** to manage incident, user, and task data efficiently. Integrated **JWT-based authentication** to secure API endpoints, ensuring high reliability and data integrity.
- **DevOps & Deployment:** Leveraged **Docker** for containerization and set up a **CI/CD** pipeline using **GitHub Actions**. Deployed the solution on **AWS Fargate**—achieving scalable, high-availability operations that meet strict performance criteria.
- **Technology Stack:** NestJS, React, Next.js, WebSockets, PostgreSQL, Prisma, Docker, GitHub Actions, AWS Fargate, JWT Authentication.