

# SIVA SANKAR REDDY ASAM

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## Summary

Software Engineer with 1+ years of experience designing, building, and deploying scalable, real-time full-stack applications using TypeScript, React/Next.js, Node.js/NestJS, Python, Go, PostgreSQL, Docker, and AWS. Proven ability to significantly enhance application performance (achieved 60% improvement via caching/optimizations) and take ownership of complex features end-to-end (e.g., real-time chat, context-aware chatbot, high-performance data tables). Strong foundation in DS&A (500+ LeetCode). Seeking an SDE 1/2 role at a leading product-driven company to tackle challenging technical problems and contribute to impactful user experiences

## Skills

- **Languages:** JavaScript/TypeScript, Python, Go, SQL
- **Frontend:** React, Next.js, State Management (Redux/Zustand),Data fetching (Tanstack Query), Performance Optimization (React DevTools, Lighthouse), UI Libraries (Tailwind CSS, Shadcn UI), HTML/CSS
- **Backend:** Node.js (NestJS, Express.js), Python (Django, Flask, FastAPI), Go, API Design (REST, GraphQL), WebSockets (Socket.IO), Microservices (Conceptual), Message Queues (BullMQ, Redis Streams), JWT Authentication, ORMs (Prisma)
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis (Caching, Pub/Sub)
- **Cloud & DevOps:** AWS (ECS Fargate, EC2, S3, Lambda, RDS, ECR, CloudWatch), Docker, Terraform (IaC), CI/CD (GitHub Actions)
- **Testing:** Jest, Supertest, React Testing Library (RTL)
- **Architecture & Design:** System Design (HLD, LLD), API Design, Database Modeling, OOP/OOD, SOLID Principles, Design Patterns
- **Tools:** Git, GitHub, Jira, Confluence, Postman, Docker Desktop, VS Code, Insomnia REST, Figma (collaboration)

## Work Experience

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

- **Accelerated application performance by 60%** and slashed API latency by 55% through architecting and deploying multi-layer caching strategies (SWR client-side, Redis server-side).
- **Engineered a high-performance data table component** handling >10k rows, featuring server-side pagination and dynamic filtering, improving data rendering speed by up to 60% via optimized SQL queries (within Frappe).
- **Owned and delivered a real-time internal communication system** utilizing WebSockets (Socket.IO), enhancing team collaboration.
- **Architected and built a context-aware chatbot** integrating with the database via Python backend logic to provide instant, relevant answers to domain-specific user queries.
- **Modernized legacy codebase modules (~80% refactored)** using TypeScript, SOLID principles, and modular design, reducing estimated technical debt by 45% and improving code maintainability.
- **Integrated Python-based AI analytics**, providing real-time operational insights that informed key data-driven decisions.
- **Optimized RESTful APIs** and refined frontend state management, achieving a 35% reduction in load times for specific complex UI workflows.

**Full Stack Engineer | Attica Gold Company | Bengaluru, India | March 2024 - July 2024**

- **Constructed a Proof-of-Concept CCTV management system** using MERN stack, Flask, and OpenCV for multi-stream video processing.
- **Leveraged AWS services (S3, Lambda)** for scalable and secure storage of video footage (>10TB/month).
- **Secured application access** using JWT-based authentication and Role-Based Access Control (RBAC).

## Projects

**Aether – Collaborative Real-Time Incident Response Platform | [GitHub Link](#)**

- **Designed, engineered, and deployed** a full-stack, real-time incident management platform from concept to production on AWS Fargate within an 8-week sprint, simulating enterprise SDLC.
- **Built a scalable NestJS (TypeScript/Node.js) backend** featuring modular architecture, PostgreSQL/Prisma data layer, Redis caching (if used), JWT auth, and robust error handling.
- **Created a dynamic, responsive frontend using Next.js (React/TypeScript)**, Tanstack Query, Zustand, and Tailwind CSS, enabling efficient state management and interaction.
- **Mastered real-time communication using WebSockets (Socket.IO)** to build a collaborative "war room" with live chat, status updates, and task synchronization, solving authentication race conditions and ensuring low-latency (<100ms target) updates. (Estimate latency if possible)
- **Orchestrated deployment using Docker and GitHub Actions CI/CD**, automating builds, tests, and zero-downtime deployments (if applicable) to AWS ECS Fargate. Managed infrastructure using Terraform (IaC).
- **Tech Stack:** TypeScript, React, Next.js, Node.js, NestJS, PostgreSQL, Prisma, WebSockets, Docker, GitHub Actions, AWS ECS Fargate, Terraform, Redis, Zustand, Tanstack Query, Tailwind CSS.

## Education

- Bachelor of Technology in Robotics Engineering | Vivekananda Global University, Jaipur, Rajasthan | 2019 - 2023
  - 7.6 CGPA