

Manav Gadhiya

Backend Engineer — Distributed Systems

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Education

ITM (SLS) Baroda University

B.Tech in Computer Science and Engineering

[2021-2025]

CGPA: 8.12

Projects

Rate Limiting Library [source](#) [npm docs](#)

- Developed a high-performance, configurable rate-limiting middleware for Node.js, supporting Express.js, Fastify, and NestJS.
- Achieved 4297+ requests/second throughput with minimal latency.
- Supports multiple storage backends (In-Memory, Redis, MongoDB) with 90%+ test coverage.
- 500+ downloads

Decentralized Rendering System [source](#)

- Built a decentralized 3D rendering platform where users submit jobs via a web UI and rendering is offloaded to external contributors incentivized through Solana-based crypto rewards
- Built a distributed system to parallelize 3D rendering tasks across multiple worker nodes, reducing render time by 50x compared to single-node setups
- Engineered a modular platform with OAuth2 login, S3-based raw/output storage, and real-time status tracking via a centralized PostgreSQL database
- Designed a serverless job orchestration pipeline using AWS SQS and Lambda to manage task scheduling, fault tolerance, and load balancing across untrusted worker nodes

Stellock [source](#)

- Simplified Stellar Blockchain onboarding using Web2 authentication methods like Google OAuth.
- Built an SDK for secure authentication and account management in TypeScript-based dApps.
- Enhanced user experience, reducing onboarding time by 50
- Winner of Stellar Indiathon Infra Track.

Technical Skills

Languages: Javascript, TypeScript, Solidity, Python, Golang

Frontend: React, Next.js

Backend: Node.js, Express.js, PostgreSQL, Redis

Databases: PostgreSQL, MongoDB

Cloud: Docker, AWS

Web3: Ethereum, Solidity

Community Involvement

Co-led the Stackheads Club as a coordinator, fostering a 300+ member coding community through events and workshops.

Achievements

Multiple Hackathon Prizes: ITMBU Illuminati (2023, 2024), HackTheLeague (May 2024), Stellar Indiathon (June 2024), ETHGlobal Bangkok (Nov 2024)