

Manav Gadhiya

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EDUCATION

ITM (SLS) Baroda University

B.Tech in Computer Science and Engineering

Vadodara, Gujarat

Sep. 2021 – May 2025

PROJECTS

Rate Limiting Library | *Node.js, Typescript | source npm docs*

Dec 2024 – Present

- 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 | *Next.js, Typescript, AWS, Blender, Python | source*

Feb 2025 – April 2025

- 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

SolRPC | *Node.js, Typescript | source*

May 2025

- Route requests through the lowest-latency RPC nodes based on real-time benchmarking — critical for games, high-frequency trading, and real-time apps.
- It provides multiple load balancing options depending on your dApp usage and traffic. Currently there are 4 options - Round-Robin, Least Connections, Least Latency and Weighted.
- Responses are automatically cached based on their nature. There are multiple caching methods - In-Memory, Redis and Memcached.

TECHNICAL SKILLS

Languages: Javascript, Typescript, SQL, HTML/CSS

Frontend: React, Next.js

Backend: Node.js, Express.js, Fastify

Databases: PostgreSQL, MongoDB, Redis

Cloud: Docker, Amazon Web Services

COMMUNITY INVOLVMENT

Co-led the Stackheads Club as a coordinator, fostering a 300+ member tech community through events and workshops like Figma Design Day, Game Jam Competition and AI Workshops.

ACHIEVEMENTS

- Multiple Hackathon Winner
 - **ITMBU Illuminati (2023)** - An Online platform for newbies to learn & discuss tech
 - **ITMBU Illuminati (2024)** - A Platform for Small businesses to get funding using Quadratic Funding.
 - **HackTheLeague (May 2024)** - A protocol that automatically reinvests your tokens based on it's APY
 - **Stellar Indiathon (June 2024)** - A Seamless Onchain Auth Solution combining the power of Web3 and OAuth2.0
 - **ETHGlobal Bangkok (Nov 2024)** - An Onchain Poker AI Agent that plays for you and earn money