

NAGA VENKATESH MANYAM

Backend Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Backend engineer and Node.js architect with 7+ years designing, building, and scaling production backend systems, real-time platforms, and distributed services for FinTech and EdTech products. Deep expertise in Node.js, TypeScript, and Express.js, owning services end-to-end across API design, database schemas, caching, deployment, and production support. Skilled at optimizing performance with Redis caching and Kafka-based event streaming, and at integrating modern AI/LLM capabilities (OpenAI, Claude, LangChain, RAG) into scalable products. Founder of LevnTech and LevnTools, where I architect backends and ship production software for international clients.

TECHNICAL SKILLS

Backend & Architecture: Node.js, Express.js, Koa.js, TypeScript, Microservices, System Design, REST APIs, GraphQL, Socket.IO, WebSockets, Kafka.js, Message Queues (Kafka, RabbitMQ)

AI / LLM Engineering: OpenAI API, Anthropic Claude API, LangChain, RAG, Prompt Engineering, AI Agents, Text-to-Speech & Video-Generation Integration

Databases: PostgreSQL, MongoDB, Mongoose, MySQL

Caching & Real-time: Redis, Socket.IO, WebSockets

Auth & Security: JWT, OAuth, Passport.js, Role-Based Access Control

Cloud & DevOps: AWS, Docker, Kubernetes, Nginx, CI/CD, GitHub Actions, Jenkins

Languages: JavaScript, TypeScript, Python

Frontend (working knowledge): React.js, Next.js, React Native, Redux, Tailwind CSS

Testing & Practices: Jest, Postman, Git, Agile / Scrum, Code Review, SDLC Ownership

PROFESSIONAL EXPERIENCE

Founder & Backend Engineer <i>LevnTech & LevnTools</i>	2025 – Present
- Design and build Node.js and TypeScript backends for clients across globe, owning API design, database schemas, authentication flows, and AWS deployment end-to-end. - Deliver production-ready REST and GraphQL APIs, background workers, and integrations across MongoDB and PostgreSQL, deployed via Docker behind Nginx. - Architected LevnTools, a suite of 125+ browser-based productivity utilities (developer, PDF, image, audio, color, SEO, QR), engineered for entirely client-side processing to eliminate server load and preserve user privacy. - Integrate AI/LLM capabilities into client and product workflows using OpenAI and Claude APIs, LangChain, and RAG pipelines for content generation, chatbots, and document processing. - Prototyped text-to-speech and video-generation model integrations for content-automation use cases. - Publish and maintain open-source developer tooling, including stringify-pro, a TypeScript string-manipulation library on npm.	
Senior Software Engineer <i>98th Percentile</i>	Sep 2024 – Apr 2025
- Designed and built the backend for a real-time student-monitoring platform serving a K-12 EdTech program, using Node.js, Express, MongoDB, Socket.IO, and Redis on AWS. - Designed MongoDB schemas and REST APIs supporting live tracking of student activity, session state, and adaptive assessment progress across concurrent classroom sessions. - Implemented Socket.IO real-time communication with a Redis adapter, enabling horizontal scaling across multiple backend instances without losing session state. - Built real-time streaming analytics pipelines with Kafka.js to process student-engagement data at scale. - Implemented secure authentication and role-based authorization with Passport.js and JWT across student, teacher, and parent roles. - Improved API response times through query optimization, MongoDB index tuning, and Redis-backed caching on high-frequency read paths. - Owned deployment and production support, including monitoring, incident response, and post-release hotfixes.	
Software Engineer — Backend & Full Stack <i>Tech Mahindra</i>	Sep 2020 – Dec 2023

- Designed and built the backend for a real-time finance data-insight dashboard using Node.js, TypeScript, Express, MongoDB, and Socket.IO on AWS, streaming live market data to sector clients.
- Implemented Redis caching on hot query paths, reducing repeated database load and improving dashboard response times for concurrent users.
- Designed and deployed REST APIs powering both web and mobile clients, with consistent data contracts and versioned rollouts.
- Containerized services with Docker for high-availability deployments.
- Built authentication flows with Passport.js and JWT across dashboard and admin surfaces, and handled production support rotations, debugging deployment issues, memory leaks, and API regressions in live environments.

Software Engineer — Frontend | *Tech Mahindra*

Jul 2019 – Sep 2020

- Developed a cross-platform mobile app with React Native, integrating with Node.js/Express REST APIs.
- Revamped e-commerce UIs with React.js, Redux, and SCSS, increasing user engagement by 25%.
- Reduced cart abandonment by 15% through checkout UX improvements and cut initial page load times by 30% via lazy loading and code splitting.

Associate Software Engineer | *Tech Mahindra*

Jul 2018 – Jun 2019

- Built and maintained web pages using HTML, CSS, and JavaScript within a CMS, with secure client-side scripting in jQuery.
- Managed source control and versioning with Git across a distributed team.

KEY PRODUCTS & PROJECTS

LevnTools — *levntools.com*

- A suite of 125+ browser-based developer and productivity utilities across developer, PDF, image, audio, color, SEO, and QR tooling, architected for entirely client-side processing (no uploads, no accounts).

stringify-pro — *published npm library*

- A TypeScript string-manipulation library with typed error handling and a comprehensive set of string operations, published to npm.

CERTIFICATIONS

Advanced React Developer • React Native Mobile Development • Google Foundations of Cybersecurity

EDUCATION

Bachelor of Technology — JNTU Kakinada | 2017 | CGPA 7.32

Diploma — Smt. B. Seetha Polytechnic | 2014 | 86%