

Koppula Yashwanth Reddy

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Education

Vignan Institute of Technology and Science B.Tech in Computer Science and Engineering CGPA: 9.01	Hyderabad, Telangana, India Sep 2024 – May 2028
Narayana Junior College Class XII (MPC) Percentage: 92.7%	Hyderabad, Telangana, India Jun 2022 – Mar 2024
Bashyam Educational Institutions Class X, SSC, Percentage: 95%	Hyderabad, Telangana, India Apr 2021 – Apr 2022

Technical Skills

Languages:	C++, JavaScript (ES6+), C, Python, SQL
CS Fundamentals:	Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems
Frontend:	React.js, Next.js (SSR/SSG), HTML5, CSS3, EJS
Backend:	Node.js, Express.js, REST API Design, JWT, bcrypt, Multer
Databases:	MongoDB, Redis (basic), Supabase, Firebase
Tools:	Git, GitHub, Postman, Vercel, Render, Netlify, GitHub Copilot

Projects

URL Shortener & Rate Limiter Node.js, Express, MongoDB, Redis	July 2026
- Built a URL shortener with custom aliases, TTL-based expiry, and MongoDB collision checks before every short-code generation. - Implemented a Redis-based rate limiter using per-user TTL keys, enforcing fixed-window request limits with zero manual cleanup. - Performed testing and quality validation using Autocannon for load testing, achieving 1,500 req/sec at 60ms p95 latency under 100 concurrent users — proactively identifying performance bottlenecks before deployment.	
MASTMO Club Website Next.js, MongoDB Link	Nov 2025 – Present
- Developed and deployed the official React-based platform for a 500-member club, managing registration tracking for 10+ active live events. - Automated end-to-end registration workflows, processing 500+ form submissions with zero manual intervention, while exploring AI-assisted development workflows to accelerate prototyping and code review. - Maintained 99%+ uptime across events by integrating logging and monitoring for real-time NoSQL (MongoDB) updates via Next.js SSR, using Git-based version control workflows for safe, incremental deployments.	
CloudNest EJS, Node.js, Express, MongoDB	August 2025
- Created a JavaScript cloud storage system using Node.js and Express, implementing clean REST APIs for secure client-side file upload and deletion. - Integrated JWT authentication with bcrypt hashing following secure coding best practices, protecting session routes and implementing security-conscious MongoDB storage models with Supabase relational tables for high-throughput metadata handling. - Configured Multer to handle multipart form data for secure client-side file uploads across the platform.	

Leadership & Extracurricular

Technical Head Mathematical & Statistical Modeling Club (MASTMO), VITS	Aug 2025 – Present
Sole developer and maintainer of club's digital infrastructure serving 500+ members; managed all deployments, feature rollouts, incident handling, and root cause analysis using Git.	

Certifications

Fundamentals of Machine Learning and Artificial Intelligence — AWS Training & Certification	July 2026
Database Management Systems — NPTEL, IIT Kharagpur	Jan – Mar 2026
Introduction to Natural Language Processing — Infosys Springboard	2025
Introduction to Data Science — Infosys Springboard	2025