

KALYAN TINGANI

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EDUCATION

VNR Vignana Jyothi Institute of Engineering and Technology
Bachelor of Technology in Computer Science and Engineering - 8.70/10 CGPA

2022 - 2026

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, SQL
CS Fundamentals: OOPS, DSA, DBMS
Frontend: Next.js, React.js, Tailwind CSS, HTML, CSS
Backend & Databases: Node.js, Express.js, Prisma ORM, PostgreSQL
DevOps & Tools: Git, GitHub, Docker, AWS, pg-boss, LangChain

EXPERIENCE

Tutly | *Next.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma, AWS, CI/CD, Docker* [code](#) | [live](#)

Learning Management System

- Built an open-source, self-hostable LMS serving 10,000+ students across 2 educational institutions.
- Engineered an isolated code-execution sandbox for student programming assignments, enabling safe real-time evaluation without infrastructure exposure.
- It handle course creation, attendance tracking with analytics, coding playgrounds, and mentor evaluation tools.
- Containerized deployment using Docker+Coolify with GitHub Actions on self-managed institutional infrastructure
- Actively maintained the open-source repository with 20+ contributors, overseeing feature development, code reviews, and CI/CD pipelines for collaborative development.

PROJECTS

Nodem | *TypeScript, Next.js, PostgreSQL, Prisma, pg-boss, Meta Graph API* [social](#) | [live](#)

- Built a visual DAG-based workflow engine that automates Instagram DM flows for creators and brands, driving engagement and lead capture without manual effort.
- Engineered real-time webhook ingestion for Meta Graph API, handling DMs and comments under tokenized, security-verified connections.
- Replaced Redis with a PostgreSQL-backed async job queue (pg-boss) for workflow scheduling, retry backoffs, and deduplication, reducing infrastructure overhead.
- Designed a normalized PostgreSQL schema with strategic indexing for workflows, nodes, edges, and session logs, to guarantee high-performance lookup speeds.

StudySphere | *Next.js, Tailwind CSS, PostgreSQL, Prisma, NextAuth.js, OpenAI* [code](#) | [live](#)

- Built a learning platform that generates AI-powered quizzes from text & PDFs, currently with **100+** active users.
- Integrated OpenAI API for generating questions, improving content engagement and accessibility.
- Added friend support with messaging and notification features, allowing users to invite friends via WhatsApp.

ACHIEVEMENTS

- Max rating of **1764** on LeetCode(kalyan_lc).
- Won **1st** prize in Krithoathon, a national-level hackathon by Krithomedh, competing against 300+ teams.
- Secured **1st** prize at Web Alchemy 2024, an inter-college web development event by CSI, VNRVJIET.
- Secured **2nd** place in Geo Innovation Challenge 2024, supported by the NGP, DST, Government of India.
- Ranked **2nd** in a coding contest hosted by Smart Interviews among all 2nd-year students.
- Won **4th** prize in Code Frenzy 2k23, a competitive programming contest by Turing Hut, VNRVJIET.

CERTIFICATIONS

- Certified in **Programming in Modern C++** through NPTEL, Nov 2024.(Link)
- Secured **Diamond** certificate in DSA and Problem Solving by Smart Interviews.(Link)
- Certified **MERN Stack Developer** – Masters Coding

VOLUNTEERING EXPERIENCE

Tutor and Problem Setter in coding team at ACM VNRVJIET