

POTHA LOKESH

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SUMMARY

Full-Stack Developer with hands-on experience building scalable web applications and AI-powered systems. Strong foundation in backend development, RESTful APIs, real-time systems, and problem solving. Proven ability to design, build, and deploy production-ready applications using modern JavaScript stacks and applied AI techniques.

PROJECTS

AI-Powered Online Learning Platform — Next.js, PostgreSQL, Gemini AI, pgvector Live Preview

- Designed and developed a full-stack e-learning platform enabling **instant AI-driven assistance** within the learning workflow.
- Implemented an **AI chatbot using Retrieval-Augmented Generation (RAG)** grounded strictly in course content
- Built a **vector-based semantic search pipeline** using PostgreSQL and pgvector to improve answer relevance and accuracy.
- Delivered a responsive, production-ready UI with adaptive chat interfaces for desktop and mobile users.

Real-Time Chat Application — React, Node.js, Express, Socket.IO, MongoDB Live Preview

- Integrated **AI-based event detection** to automatically extract meetings and schedules from chat messages.
- Developed real-time messaging using **WebSockets (Socket.IO)** for low-latency communication.
- Implemented secure authentication, message persistence, and read receipts.
- Added user profiles and media sharing to enhance usability.

MarketPulse Dashboard — Next.js, TypeScript, Cloudflare Workers, MongoDB Live Preview

- Developed a financial analytics dashboard to track **real-time and historical stock market data**.
- Implemented **interactive candlestick charts** for technical analysis.
- Automated background data and news ingestion using **Cloudflare Workers**.
- Designed scalable REST APIs for market data retrieval and aggregation.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, JavaScript

Problem Solving & DSA: Strong problem-solving skills with solid understanding of core data structures and algorithms

Web & Backend Technologies: React, Next.js, Node.js, Express.js, REST APIs, Tailwind CSS

Databases: PostgreSQL, MongoDB, MySQL

AI & GenAI: Retrieval-Augmented Generation (RAG), Vector Embeddings, Google Gemini

Developer Tools: Git, Postman, Docker (Basic), Vercel, Cloudflare Workers

EDUCATION

Bachelor of Technology — Electronics and Communication Engineering Jul 2023 – Present

JNTUA College of Engineering, Anantapur — CGPA: 7.51 / 10

Foundational Certificate — Data Science (Online Degree) 2023 – 2024

Indian Institute of Technology Madras

Diploma — Electronics Engineering Jul 2020 – Jul 2023

E.S.C Government Polytechnic College, Nandyal — Grade: 90%

CERTIFICATIONS & ACHIEVEMENTS

- IIT Madras — Data Science (Foundational Certificate), 2024
- Java Object-Oriented Programming Certification, 2024
- Web Development Bootcamp — Udemy, 2025
- Solved **250+ coding problems** on LeetCode and GeeksforGeeks
- APECET Rank: **42 / 7000+** — POLYCET Rank: **1357 / 80000+**

LEADERSHIP & ACTIVITIES

- Coordinator for a department-level coding challenge conducted during the annual technical fest.
- Team Lead for a weekly coding club, facilitating collaborative problem-solving sessions.
- Actively contributed to technical discussions and peer learning initiatives.