

KANDREGULA SURESH

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Summary

Full-stack developer skilled in MERN, Next.js, and real-time systems. Solved 400+ DSA problems; strong in system design, REST APIs, and cloud deployment.

Education

Bachelor of Technology in Computer Science,
KL University, Vijayawada 

July 2023 – May 2026 | Vijayawada, India

- *Current CGPA : 9.5*

Industry Ready Certification in Full Stack Development,
Nxtwave Disruptive Technologies 

September 2022 – October 2026 | India

Diploma in Computer Science Engineering,
M.B.T.S Govt Polytechnic 

July 2020 – May 2023 | Guntur, India

- *Diploma Percentage: 86%*

Technical Skills

Programming Languages: Python | Java | C++ | C |
Javascript | Typescript

Web Technologies: HTML | CSS | Tailwind CSS |
Bootstrap | React | Next | Node | Express

Frameworks and Libraries: Next JS | Pandas | NumPy |
Matplotlib | Seaborn

Databases for Data storage: Relational Databases –
MySQL, PostgreSQL | **NoSQL Databases –** MongoDB |
Serverless & Real-Time Backend – Convex

Data Structures & Algorithms: Solved 400+ problems on
Nxtwave & LeetCode covering Arrays, Strings, Trees, Graphs,
DP, Recursion, Heaps, Tries and Greedy Algorithms.

System Design & Architecture: Scalable Design |
Microservices | REST APIs | WebSockets | SQL/NoSQL |
Caching | Load Balancing | Message Queues | Distributed
Systems | Auth & Encryption.

Distributed Systems: Docker(basics) | Redis(basics) |
Kafka (basics) | Web Sockets(Socket.io)

API Development & Optimization: RESTful APIs | Stripe
API | Clerk Authentication | GraphQL

IDEs, Tools & Platforms: Git | GitHub | Linux | Stripe
Payment Gateway | Stream.io

DevOps & Cloud: AWS(Amazon Web Services) |
CI/CD(basics) | Kubernetes(basics)

Softskills: Communication | Teamwork | Technical
Documentation | Interpersonal

Experience

Webxinfinity, Web Developer Intern : (January 2025 - April 2025) 

- Developed **scalable web applications** using the **MERN stack** and **relational databases** like **PostgreSQL**, reducing **page load time** by **30%**.
- Designed and implemented **multi-tiered distributed** storage and query systems ensuring scalability and fault tolerance across services.
- Gained hands-on experience in **code reviews**, **version control (Git)**, and **agile development**, mirroring **real-world engineering workflows**.
- Regularly **presented technical concepts** and **trade-offs** to both **technical** and **non-technical stakeholders**.

Projects

1. Chat & Video Calling App

Tech stack: React, Express, MongoDB, Tailwind CSS, Tanstack Query, Socket.io.

- Built **real-time messaging** with **typing indicators** and **emoji reactions**, boosting **user engagement** by **20%**.
- Used **Socket.io** and **WebRTC** for real-time communication over **TCP/IP**
- Added **group video calling** to support **social learning**, increasing **user retention** by **35%**.
- Implemented **TanStack Query** for **efficient data fetching and caching**, improving **load times** by **60%**.
- Integrated **Stream** for **scalable, reliable messaging**, achieving **99% uptime** across all sessions.

2. Remote Interview Platform

Technologies used: Next.js, TypeScript, Tailwind CSS, Shadcn, Stream, Convex, Clerk

- Built a real-time interview platform with Stream, **enabling seamless video calls, screen sharing, and recording**.
- Designed a modern UI with Tailwind CSS & Shadcn, **increasing user engagement** by **40%**.
- Integrated Clerk for authentication & Convex for data storage, **enhancing security and scalability**.
- Optimized server actions & server components, **improving performance** by **30%** and reducing load times.

3. AI-Powered Fitness Assistant Web App

Tools and Technologies used : Next.js, React, Tailwind CSS, Shadcn UI, Vapi, Gemini AI, Clerk, Convex

- Developed a **conversational fitness assistant** using **Vapi** and **Gemini AI** to provide **real-time, personalized fitness and nutrition plans** based on user input like goals, injuries, and dietary preferences.
- Integrated **Clerk** for secure, seamless authentication via GitHub, Google, and email/password.
- Used **Convex** for **real-time state management**, enabling instant plan updates and interactions across sessions.
- Built a **responsive, accessible UI** with **Tailwind CSS** and **Shadcn UI**, ensuring smooth UX across all devices and user needs.

Achievements & Awards

1. Awarded as “Top Intern”

at Webxinfinity for delivering **30% performance improvements** across key product features ahead of schedule.


2. 1st Place – College Hackathon

Led a 4-member team to victory in a 24-hour coding hackathon organized by KL University by building a scalable AI-driven solution, outperforming 50+ teams.

3. Received ₹1L academic scholarship

from KL University

Certificates

AI Associate  — Issued by Salesforce

React, Node, Python Essentials, JavaScript, Databases  — Issued by Nxtwave

Developer Foundations(OS, Networks, Git, GitHub, Linux)  — Issued by Nxtwave