

Nehil Chandrakar

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TECHNICAL SKILLS & TOOLS

Languages: Java, JavaScript, Python

Frameworks & Tools: Next.js, React.js, Node.js, Express.js, WebSockets, webRTC, REST APIs, Docker, AWS(basics), GCP(basics), LangChain

Databases: PostgreSQL, MySQL, MongoDB

Computer Science Fundamentals: Data Structures & Algorithms, DBMS, Operating Systems, Object-Oriented programming

PROJECTS

Virtual Office | Turborepo, React.js, TypeScript, Node.js, WebRTC, webSocket, PostgreSQL



- Built "**SkyScope**," a 2D virtual office platform using a **Node.js & TypeScript** monorepo to combat remote team isolation through real-time spatial interaction.
- Engineered the real-time backend using a **WebSocket (ws)** server for live presence and chat, integrating **peer-to-peer WebRTC** signaling for proximity-based video calls.
- Architected with decoupled microservices: an **Express** REST API for auth/data and the WebSocket server, backed by a **PostgreSQL** database with **Prisma** ORM.
- Implemented a lightweight CI/CD pipeline within Render to automate builds, **Jest** unit tests, and **Prisma** database migrations on each commit.

MentorLoop - Closed Loop System | FastAPI, Supabase, WebSockets, webHooks, n8n, React Native Web



- Built a real-time **Intervention Engine** using **FastAPI**, **Supabase**, **WebSockets**, and **n8n** for automated mentor workflows to track student's performance
- Implemented async backend state transitions with **live WebSocket updates**.
- Designed **n8n workflow** with email approvals and **12-hour fail-safe** auto-unlock.
- Developed **React Native Web** frontend with Focus Timer, Quiz, Locked Mode, and real-time task updates.

ScribeAI—AI Meeting Notes | Next.js, TypeScript, Tailwind CSS, Prisma (PostgreSQL), Socket.io



- Developed a **real-time audio transcription platform** enabling **microphone/tab audio capture** (Google Meet/Zoom), **chunked audio streaming**, and **live incremental transcription** powered by **Google Gemini**.
- Implemented **robust session state management** (recording, paused, processing, completed) using **XState** and **Prisma ORM**; engineered a **fault-tolerant streaming pipeline** supporting **1+ hour recordings** with **automatic reconnection handling**.
- Built a **responsive, modern dashboard** using **Tailwind CSS**, **Radix UI**, and **Framer Motion**; integrated **Socket.io** for **low-latency transcript updates** and implemented **post-session AI summarization** with action items, decisions, and key points.

ACHIEVEMENTS & CERTIFICATIONS

Mercuria India Hackathon 2024 – 2nd Prize among 450+ teams Nationwide

Nov 2024



Emerging Tech Hackathon 2024 – 3rd Place among 200+ professionals & students

Dec 2024



Oracle Cloud Infrastructure 2025 Certified Generative AI Professional



Oracle AI Vector Search Certified Professional



EDUCATION

Siddaganga Institute of Technology

Tumkur, India

B.E. in Computer Science and Engineering (AI/ML) | CGPA: 7.5

Expected Jun 2026

EXTRACURRICULARS

AI Brewery

Nov 2024 – Present

Co-Founder

SIT, KA

- Built a student community of 90+ members, hosted 5+ workshops and hackathons on GenAI and emerging tech.
- Exploring LLMs, agents and building open-source tools that simplify developer workflows