

VEDANT SUTHAR

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PROFESSIONAL SUMMARY

Software Engineer with 1.5+ years of experience building full-stack applications and backend services using Python, TypeScript, React, Angular, FastAPI, Node.js, and PostgreSQL. Experienced in REST APIs, AI/LLM integrations, real-time systems, asynchronous processing, and performance optimization.

EXPERIENCE

Software Developer — SpeedExam

Jun 2025 – Present

Gandhinagar, Gujarat

- Developed browser-based face liveness verification using face-api.js and MediaPipe FaceMesh with active blink, turn, and nod challenges.
- Built AI-assisted proctoring with audio human-voice detection, browser-tab monitoring, and SignalR-based real-time exam suspension notifications.
- Designed permission-driven ASP.NET Core APIs replacing a legacy VB.NET/ASPX system and contributed to Angular v19→v21 migration.
- Integrated Piston API for multi-language code execution and optimized frontend/API usage, reducing page load times by 40%.

Founding Engineer — Zoffer.ai

September 2025 – November 2025

Part-time

- Built Zoffer, a conversational automation platform integrating Twilio WhatsApp, FastAPI, and Zoho Books to execute accounting operations through natural-language messages.
- Designed backend services for conversation handling, request routing, Zoho API integration, and persistent state using SQLite.
- Built semantic intent routing using FAISS and OpenAI embeddings, with a two-stage Gemini pipeline for extracting fields from deeply nested Zoho API schemas.
- Developed schema indexing and retrieval using object flattening, keyword caching, and field-synonym mappings to improve API operation and field resolution.

ReactJS Intern — Brands.live

Feb 2025 – May 2025

Ahmedabad, Gujarat

- Developed React components and integrated REST APIs for dynamic web application features.

PROJECTS

VaultFS — Cloud File Management Platform

Next.js, Node.js, PostgreSQL, GCP, Docker

- Built a Google Drive-inspired file management platform using Next.js, React, Tailwind CSS, and Node.js/Express, supporting authentication, folder hierarchy, file uploads/downloads, search, and sharing.
- Designed RESTful backend services with PostgreSQL for users, files, folders, permissions, and metadata, integrating GCP Cloud Storage for scalable object storage.
- Implemented asynchronous file-processing jobs and scheduled background tasks, with Dockerized services and GitHub Actions for automated testing and deployment.

NeoTube — Full-Stack Video Platform

React, Node.js, FastAPI, PostgreSQL

- Built a video-sharing platform with JWT authentication, playlists, subscriptions, comments, watch history, and Cloudinary-based media storage.
- Developed FastAPI services using Whisper/OpenAI for transcript and quiz generation with WebSocket-based progress tracking.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Frontend: React, Next.js, Angular, Tailwind CSS, Redux Toolkit

Backend: Node.js, Express.js, FastAPI, ASP.NET Core, REST APIs, WebSockets

Databases: PostgreSQL, MongoDB, SQLite, Prisma ORM

Cloud & DevOps: GCP, AWS, Docker, GitHub Actions, Git, Linux

AI & Tools: Ollama, FAISS, Claude Code, Antigravity CLI, GitHub Copilot, Git, Docker, Linux, Postman

EDUCATION

Indus University, Ahmedabad

Bachelor of Technology in Computer Science Engineering

2021 – 2025

CGPA: 9.40/10