

Sahil Khatkar

Full-Stack Developer

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Summary

Full-stack developer at AIThinkers shipping production AI products end to end – cross-platform desktop apps with native audio and offline speech, serverless NestJS backends on AWS, and React frontends – and integrating LLMs (Claude, MCP, OpenAI) into them.

Experience

AIThinkers

Full-Stack Developer

May 2025 – Present

India

- Built and shipped **AIT-Scribe**, a cross-platform (macOS/Windows/Linux) desktop voice-to-text app: system-wide hold-to-dictate that transcribes speech and pastes at the cursor in any app, with a floating status widget that renders over fullscreen apps.
- Implemented **offline transcription** via faster-whisper (no API key), voice-activity detection and wake-word support, with native macOS audio capture (Core Audio / HALInputUnit); iterated across **100+ released builds** to tune latency and accuracy.
- Engineered the **AIHR enterprise portal** backend with **NestJS, TypeORM and MySQL deployed serverless on AWS Lambda** (serverless-express), integrating S3, SES, KMS and Secrets Manager, real-time updates over WebSockets (Socket.io), and Swagger-documented REST APIs.
- Developed the AIHR portal frontend in **React + TypeScript + Vite** with Redux Toolkit, shadcn/ui + Radix, TanStack Table and React Hook Form; documented reusable components in Storybook with accessibility checks and Vitest coverage.
- Built **xThinker**, an AI agent-platform dashboard with an in-browser code editor (Monaco) and a live execution sandbox via WebContainers, Auth0 auth and Recharts analytics.

Projects

- RecoveryCart** (*Next.js, Prisma, Shopify API*) – SaaS that recovers revenue from abandoned Shopify carts with AI-generated recovery emails.
- Mutual Fund Analyzer** (*Python, Market Data APIs*) – Indian mutual fund & market-intelligence system with a “smart-money” signal engine for portfolio insights.
- FileForge** (*Reflex, FastAPI, Celery/Redis, Docker*) – AI-powered PDF intelligence platform that converts, extracts and transforms PDFs at scale via an async task queue.
- Google Meet AI Agent** (*Python, Selenium, Whisper, OpenAI*) – bot that joins a Meet, gives a TTS intro, transcribes with Whisper and answers questions via OpenAI.
- AI Video Pipeline** (*Python, Anthropic API, ElevenLabs, MoviePy*) – turns a script into a narrated video: AI copy, ElevenLabs voiceover, Whisper alignment, MoviePy assembly.

Technical Skills

Languages: TypeScript, JavaScript, Python, Dart, SQL

Frontend: React, Next.js, SolidJS, Vite, Redux Toolkit, Tailwind CSS, shadcn/ui, Radix, TanStack Query/Table, Storybook

Backend: NestJS, Node.js, Express, TypeORM, REST, WebSockets (Socket.io), Swagger/OpenAPI

Cloud & Data: AWS (Lambda, S3, SES, KMS, Secrets Manager), Serverless, Docker, MySQL, Prisma, Redis, Firebase, Git

AI / LLM: Anthropic Claude API, Model Context Protocol (MCP), OpenAI, Whisper / faster-whisper, ElevenLabs, Claude Code

Cross-platform: Flutter, Electron, native macOS (Swift / Core Audio)

Certifications

Anthropic: Claude Code in Action · Claude with the Anthropic API · Introduction to Model Context Protocol · Introduction to Agent Skills

Education

C-DAC, Pune

Post Graduate Diploma, Internet of Things (IoT)

Kurukshetra University

B.Tech, Electronics & Communication Engineering

Mar 2024 – Aug 2024

2020 – 2023