

Lakshya Khanna

FULL-STACK ENGINEER

Dehradun, India · 30°N 78°E
+91 94101 40226
Lakshyak789@gmail.com
<https://www.lakshya.space>
github.com/lakshyak789

01 / PROFILE

Full-stack engineer with seven years moving between front-end and back-end work — chasing systems that need a careful pair of hands to keep them upright.

Currently contracting with CS Technology on **Ferroglobe (US)** — engineering monitoring & AI tooling for industrial plants that can't afford downtime. Comfortable working offshore across timezones. Happiest when the work is quiet, durable, and slightly unglamorous — when a tool you wrote three months ago is still running and nobody had to think about it.

02 / OPEN SOURCE

AI Log Analyzer & Auto-Debugger

open-source

An agent that reads its own stack traces — a Python agent watching multi-service apps in real time, catching crashes the moment they happen and walking the trace itself. AI pipeline reads the stack, locates the seam, proposes an immediate code fix (front- or back-end). Slack & email pings carry the diff, not just the error.

Python · OpenAI · FastAPI · Slack API · SMTP

github.com/lakshyak789/AI_log_analyzer

AI Call & Interview Copilot

open-source

A free copilot that sits beside you in the call — built as a free alternative to enterprise call assistants, earning community traction by refusing to put the useful parts behind a paywall. Listens to live audio for in-call advice; drop in a UI screenshot, get ready-to-use React code; résumé parser auto-generates 15 tailored interview questions.

Python · React · Whisper · Vision AI · WebRTC

github.com/lakshyak789/AI_meeting-copilot

03 / EXPERIENCE

CS Technology LLC · Ferroglobe (US)

Apr 2026 — Present

Contract Full-Stack Engineer — offshore engagement

Plant Health Management System — full-stack monitoring platform for Ferroglobe's US operations, working offshore across timezones for an industrial client where uptime is everything.

- Admin panel manages environments (UAT, Prod) and service config (REST, DB, cron jobs)
- Python heartbeat agent pings every service per minute — real-time green/red dashboard
- Incident management + scheduled maintenance windows + per-service email subscriptions
- Full CRUD service config via GET/POST/PUT/PATCH/DELETE; plus bug fixes on a legacy Django/React-TS app

React · FastAPI · PostgreSQL · Python · Django

MES Assist — configurable AI chatbot platform + embeddable widget for a Manufacturing Execution System; admin panel to configure bots and a one-script-tag widget that drops into any page.

- RAG + data-agent (LlamaIndex + Qdrant + HuggingFace) — answers from docs, runs read-only SQL / API calls, returns live plant data as tables and 11 chart types
- Embeddable widget (Vite IIFE + Shadow DOM) drops into any page via one <script> tag, isolated from host CSS
- Provider-switchable LLM per-chatbot (Azure OpenAI / OpenRouter / OpenAI) — model, temperature, prompt, RAG settings configurable from the UI
- Secure widget auth: host app's JWT forwarded in custom header, validated server-side to gate plant-specific data
- Nginx reverse proxy: same-origin admin + widget under main MES app, fail-safe upstreams — no IP/port exposure, no CORS, no mixed-content

Django · DRF · React · TypeScript · LlamaIndex · Qdrant · Docker · nginx · Azure OpenAI

Isha Foundation · Whisper AI pipelines

Jul 2024 — Dec 2025

Full-Stack Engineer — speech-to-text pipeline design

Designed and built speech-to-text pipelines on Whisper AI for an internal transcription service; full-stack work across FastAPI backends and React frontends.

- Tamil transcription via Whisper.cpp — FastAPI router + FFmpeg 15-second chunking, stitched output
- Fine-tuned Whisper on 400+ hours of audio on Kaggle, working through GPU/memory constraints
- Threading + task queue for the Flask service: one-at-a-time GPU access, no slowdowns
- Auto-pipeline: Python tool transcribes audio → posts to Confluence → creates Jira ticket
- Custom Confluence Page-Diff tool (FastAPI + React) with Tampermonkey for in-page launch
- Dufs-based drag-drop UI for batch audio jobs producing .srt subtitle files

Whisper.cpp · FastAPI · React · FFmpeg · Kaggle

Isha Foundation · Sadhanapada Volunteer

Jun 2023 — May 2024

Web Team — React, Apps Script, Looker Studio

Contributed to the org's website with React.js, then shifted to reporting workflows using Google Apps Script and Looker Studio.

Ibexlabs · Labra.io (US)

Apr 2021 — Oct 2022

Software Engineer — offshore engagement

Engineered for Labra.io (US), an AWS marketplace SaaS — owned a ConnectWise CRM integration end-to-end, plus full-stack work across the product.

- Front-end UI: TypeScript, React, Redux, Jest
- Back-end APIs: Go, Python, PostgreSQL
- ConnectWise CRM integration end-to-end

TypeScript · React · Redux · Go · Python · PostgreSQL

SupportGenie

Mar 2019 — Mar 2021

React.js Developer — ticketing portal, video chat, GraphQL migration

Carried the front end of a ticketing portal solo. Migrated the marketing site from AngularJS to Gatsby, swapped REST for Apollo GraphQL, shipped a WebRTC video-chat application.

- Autobahn pub/sub · Apollo GraphQL · Gatsby.js migration
- WebRTC video-chat application from scratch
- Jenkins CI · Docker containerization · Material-UI · Python APIs

Actionable Science

Nov 2018 — Mar 2019

JavaScript Developer (Intern) — React UI for YAML-driven chatbot

First professional role — built React UI for a YAML-driven chatbot platform. The kind of system that taught me to read other people's configs carefully.

Axel Web Technology

Jan 2016 — Apr 2016

Backend PHP Developer — electronic health record system

Worked on an EHR backend in CakePHP. The first time I saw what “legacy” really meant.

04 / TOOLS AT HAND

Front-of-house	React · TypeScript · Redux · Next.js · Gatsby · Apollo GraphQL · Material UI · Jest
Back-of-house	Python · FastAPI · Django · Node · Go · PostgreSQL · REST · GraphQL
AI & audio	Whisper · Whisper.cpp · FFmpeg · Kaggle fine-tuning · Vision AI · Prompt orchestration
Glue & ops	AWS · Docker · Linux · Jenkins · WebRTC · Autobahn pub/sub · Slack/Email automation · Confluence/Jira scripting

05 / EDUCATION

Chandigarh Engineering College

2016 — 2018

Master's in Computer Application

Lovely Professional University

2012 — 2015

Bachelor's in Computer Application

Off-platform: [linkedin.com/in/lakshya-khanna-8b861754](https://www.linkedin.com/in/lakshya-khanna-8b861754) · github.com/lakshyak789 · <https://www.lakshya.space>