

Lakshya Khanna

Dehradun, Uttarakhand, India

+91 94101 40226 | Lakshyak789@gmail.com | <https://www.lakshyakhanna.xyz/>

Objective

To utilize my technical skills and provide a professional service to customers by applying and honing my knowledge and working in a challenging and motivating working environment.

Projects

• Open-Source AI-Powered Log Analyzer & Automated Debugging Agent

Developed a Python-based log monitoring agent that tracks multi-service application crashes in real-time. Integrated an AI pipeline to autonomously analyze stack traces and generate immediate code fixes for both frontend and backend architectures.

Configured automated, formatted alerts via Slack, Email to reduce debugging time and streamline developer workflows.

Repo link: https://github.com/lakshyak789/AI_log_analyzer

• Open-Source AI Call & Interview Assistant

Engineered a free, open-source alternative to enterprise AI call assistants using Python and React, achieving community traction by solving a high-value problem without a payroll.

Built a real-time "in-call advice" engine that processes live audio context to deliver immediate, actionable guidance during meetings or interviews.

Integrated vision AI capabilities, allowing users to upload UI screenshots and instantly generate functional, ready-to-use frontend code.

Developed an automated resume parser that analyzes uploaded user resumes and dynamically generates 15 tailored, highly specific interview questions to streamline preparation.

Repo link: https://github.com/lakshyak789/AI_meeting-copilot

Experience

• CS Technology LLC

08/04/2026 - Present

Contract Full Stack Engineer · for Ferroglobe (US)

Plant Health Management System (React.js, FastAPI, PostgreSQL, Python)

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

Built a full-stack service monitoring platform with an admin panel to manage environments (UAT, Prod) and configure services (REST endpoints, DB, cron jobs).

Developed a Python heartbeat agent that pings all services every minute and displays real-time status on a dashboard (green/red indicators).

Implemented incident management (add, update, resolve) and scheduled maintenance tracking.

Added user management and a subscription system for email notifications on service, environment, or incident updates.

Supported full CRUD configuration for services via GET, POST, PUT, PATCH, DELETE methods.

Legacy Application Maintenance & Enhancement (Django, React, TypeScript)

Diagnosed and resolved bugs across a legacy Django REST backend and React TypeScript frontend.

Collaborated on adding new features based on evolving business requirements.

• Isha Foundation (Remote and Long-term Volunteering)

01/07/2024 - 15/12/2025

Volunteer

Enhanced an existing Whisper-based transcription service used internally by the team.

Integrated Whisper CPP to support Tamil transcription and developed a FastAPI server that routes Tamil audio to Whisper CPP. Implemented audio segmentation using FFmpeg (15-second chunks), processed each segment, stitched the results, and returned the final transcription to the main Whisper service.

Improved system performance by adding threading and a task queue to the existing Flask service, ensuring only one request is processed at a time to reduce GPU load and prevent slowdowns.

Implemented additional UI refinements and minor architectural improvements.

Developed a tool for audio transcription using Whisper in Python. The tool automatically transcribes audio to text, posts the transcription to Confluence, and creates a corresponding ticket in Jira.

Fine-tuned the Whisper model on over 400 hours of audio data using Kaggle. Faced and resolved multiple resource constraints by optimizing configuration settings to enable successful training within Kaggle's limitations.

Designed a lightweight server UI using Dufs, allowing the team to drag and drop audio files into a designated folder. The system automatically begins transcription and outputs `.srt` subtitle files in a target folder.

Authored numerous automation scripts for Confluence to extract specific types of data or audio.

Built scripts for Jira to update or retrieve records and perform batch operations for streamlined task management.

Created a custom application called Confluence Page Version Difference Tool with a FastAPI backend and React frontend. The default version diff functionality in Confluence had limitations, so this tool provided more accurate and user-friendly comparisons.

Integrated the tool with Tampermonkey: once two versions of a Confluence page are selected, a "Compare" button is automatically displayed, leading users directly to the custom difference viewer.

• Isha Foundation

08/06/2023 - 31/05/2024

Volunteer (Sadhnapada)

Actively contributed to the website development team, working with React.js to create the organization's website.

Later, collaborated with another tech team, focusing on Google AppScript and Looker Studio to generate reports.

• Ibexlabs

11/04/2021 - 15/10/2022

Software Engineer · for Labra.io (US)

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

Worked on frontend developing the UI of the product.

Technologies used: TypeScript, React.js, Redux.js, Jest.

Worked on backend for creating APIs.

Technologies used: Golang, Python, PostgreSQL.

Worked on Python for integrating a ConnectWise CRM.

• SupportGenie

20/03/2019 - 31/03/2021

React.js Developer

Started as a React.js developer and contributed to building a web portal with a ticketing system.

Initially handled the entire front-end development independently.

Worked with Autobahn (Pub/Sub library), React.js, and Redux.

Led the migration of the company website from AngularJS to Gatsby.js.

Migrated the portal from REST services to GraphQL by setting up Apollo GraphQL on the front end for queries and mutations.

Developed a video chatting application using WebRTC.

Set up Jenkins on the server for automated builds and worked with Docker for containerization.

Implemented UI components using Material-UI with React.

Worked with Python to create APIs.

• Actionable Science

01/11/2018 - 15/03/2019

JavaScript Developer (Intern)

Worked here as an intern JavaScript developer. Started working on React.js and created flows for a bot which were developed in YAML files.

• **Axel Web Technology**

07/01/2016 - 06/04/2016

Backend PHP Developer

Worked on an electronic health record backend, which was in CakePHP.

Education

• **Chandigarh Engineering College**

2016 - 2018

Masters in Computer Application

• **Lovely Professional University**

2012 - 2015

Bachelor's in Computer Application

• **D.A.V Public School**

2012

Higher Secondary

• **D.A.V Public School**

2010

High School

Interests

- Basketball
- Cycling
- Trekking
- Travelling

Personal Details

- Date of Birth : 03/07/1994