

Siddharth Gandhi

LinkedIn: [siddharth-gandhi](#)

Github: [sid-gandhi](#)

Email: siddharthgandhi005@gmail.com

Mobile: +91-7073019961

EDUCATION

- Indian Institute of Technology Kharagpur** West Bengal, India
Bachelor of Technology Biotechnology; GPA: 8.55 *July 2019 - April 2023*
Relevant Courses: Programming & Data Structures, Probability & Statistics, Big Data Processing, Theory of Operating System

WORK EXPERIENCE

- Kwal Inc.** Remote
Founding Fullstack Engineer *July 2023 - Present*
 - Built backend microservices with Express and TypeScript for interview scheduling, sending notification alerts
 - Developed an interview analytics pipeline with Deepgram and GPT-4o, for call summarization & intent detection
 - Integrated Azure Monitor for logging, tracing, and custom alerts, improving system reliability and observability
 - Implemented server-side pagination, filtering, and sorting on data tables, enhancing efficiency and experience
 - Built a synchronized recording-transcript player with Wavesurfer.js for interview playback & search functionality
- Optum — United Health Group** Remote
Product Intern *May 2022 - Jun 2022*
 - Conducted secondary research, analyzed market trends along with mapping customer journey & behavior
 - Identified multiple touch points in the customer journey and recommended a 3-pronged strategy to optimize CX
 - Built an ML classification model to analyze 10,000 customer verbatim messages and achieved an 82% accuracy

PROJECTS & COMPETITIONS

- Voice-Enabled Document Q&A System** Dec 2024
Real-time question answering on documents using voice interactions [Github](#)
 - Developed a voice-based RAG system which can process text-based(.txt, .pdf, .docx) documents for retrieval
 - Used LangChain for processing, Cohere's embedding model and Pinecone for vector storage and similarity search
 - Integrated Deepgram STT and TTS for real-time speech transcription and synthesizing with 300 ms endpointing
 - Utilized Groq's LLaMA3-70B model for generating contextually accurate answers based on retrieved segments
- Audio Canvas** Oct 2023
Voice enabled image generation [Github](#)
 - An application designed to interpret and process user's voice commands to generate visual images autonomously
 - Built a responsive Next.js 13 app with FastAPI(python) backend to process the raw audio input from the user
 - Used Deepgram nova-2 for transcription, GPT-3.5 for command interpretation, & DALL-E for image generation
- COVID-19 detection using chest radiographs** July 2022
Build an ML model that detects COVID-19 from chest X-ray images, aiding quick and reliable diagnoses
 - Used YOLO-V5 to identify and localize COVID-19 abnormalities in a dataset of 6,000 chest X-radiographs
 - Applied EfficientNet-B7 and ResNet for classifying chest radiographs based on the severity of COVID-19
- Open-Soft — Technology Students Gymkhana — 2nd position** Feb 2022
Create a food delivery application to ensure the availability of essential services during downtime
 - Developed a horizontally scalable Food Delivery application using a microservice architecture with 4 services
 - Built REST APIs using DRF and connected the services using API Gateway and JWT for token authentication
 - Created a Twilio Messaging Service for sending delivery messages and integrated Razorpay for payment service

SKILLS SUMMARY

- Languages:** TypeScript, Python, C, C++
- Frameworks:** Nextjs, Express, Django Rest Framework, Tailwind CSS
- Tools:** Git, Supabase, Twilio, Sendgrid, Azure

AWARDS & ACHIEVEMENTS

- Achieved 2nd rank among 50+ students in the Department of Biotechnology & Biochemical Engineering at IIT KGP
- Captain of Hall Squash team and Secured 1st position in the Squash General Championship 2023 at IIT Kharagpur
- Selected as one of the top 3000 students nationwide to participate in the Amazon ML Summer School of 2022
- Secured 3rd position in Match Olympiad competition organized in the Kshitij Tech Fest at IIT Kharagpur