

Md Kaif

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GitHub

LinkedIn

Portfolio

Education

Indraprastha Institute of Information Technology, Delhi

2022–2026

Bachelor of Technology in Computer Science and Engineering

Technical Skills

Programming Languages: C/C++, Python, JavaScript, TypeScript, HTML/CSS, SQL, Go, Kotlin

Frameworks and Libraries: React.js, Node.js, Express.js, FastAPI, Jetpack Compose, TailwindCSS

Cloud and DevOps: Docker, Cloudflare, Nginx, Git, GitHub, GCP

Databases: MongoDB, PostgreSQL, Firebase

Development Tools: Visual Studio Code, Claude Code, Linux, Figma, Tableau

APIs and Integration: OpenAI APIs, Google Cloud APIs, RESTful APIs, System Design

Experience

Alpine Privacy

Jun 2025 – Present

LLM Engineer Intern / AI Startup

- Led development of AI applications, including a generative design tool for architecture and a privacy platform for document sanitization.
- Designed scalable infrastructure with **Cloudflare Tunnel** and GPU acceleration, boosting document sanitization performance by **10x**.
- Built a full-stack AI platform using **React**, **Python (FastAPI)**, **PostgreSQL**, containerized with **Docker**, and deployed on a cloud platform.
- Engineered a microservices architecture for independent scaling of frontend and backend services.

VeilCode Labs

Jan 2025 – Mar 2025

IITD

- Collaborated on building a Cryptography Resource Portal to centralize course materials, cryptographic resources, and upcoming events for Applied Cryptography and Cryptanalysis, aiming to benefit thousands of students and users.
- Focused on creating user-friendly navigation and community interaction features, including discussion boards and resource bookmarking, to support seamless collaboration and learning.
- The project utilizes multiple tech stacks like Framer Motion, React.js, Node.js, and Firebase.

Projects

AI For Architects: Gen AI For Architects

Jun 2025 - Present

- Developed a full-stack web app with **React.js**, **Node.js**, **Express.js**, **MongoDB**, integrating **OpenAI DALL-E 3/GPT-4o** and **Google Veo 2.0 APIs** for AI-driven image/video generation of architectural designs.
- Added a media management system with **CORS-compliant proxy routes**, **JWT authentication**, and **role-based access**, deployed on **ai-for-architects.com** via **CloudFlare tunnels** and **Nginx**.

Document Privacy: Document Sanitization Tool

Jun 2025 - Present

- Deployed a privacy-preserving document sanitization system using **differential privacy**, supporting **4+ file formats** (PDF, DOCX, TXT, HTML) with **NER** for PII detection.
- Built scalable infrastructure with **Cloudflare Tunnel**, **Docker**, **GPU acceleration**, achieving **10x performance boost**, and a web interface with real-time feedback and error handling.

Multi-Scan-App

Apr 2025

Guide: Dr. Arani Bhattacharya

- Built an Android app with **Jetpack Compose** for document scanning and landmark recognition using **TensorFlow Lite** models, featuring a unified main menu.
- Enabled real-time landmark detection and PDF generation with **Kotlin**, **CameraX**, **Gradle**.

U.S. Lightning Strikes Story (Tableau)

May 2025

Personal Project

- Analyzed **13 million U.S. lightning strike records** (2009–2018) to reveal spatial and temporal patterns using Tableau dashboards and heatmaps.
- Crafted a visual story for public insight-driven presentation.

Achievements

Qiskit Global Summer School

2024

Participated in the IBM Quantum Computing Summer School.

IBM Artificial Intelligence Fundamentals

2025

Showcasing my knowledge in AI/ML's fundamentals.

Google Advanced Data Analytics

2025

Completed the coursera course to learn comprehensive data analysis as well as machine learning.