

# Md Kaif

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GitHub

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Portfolio

## Education

Indraprastha Institute of Information Technology, Delhi

2022–2026

Bachelor of Technology in Computer Science and Engineering

## Technical Skills

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

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

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

**Databases:** MongoDB, Firebase

**Development Tools:** Visual Studio Code, Claude Code, Linux, Draw.io, Tableau

**APIs and Integration:** OpenAI APIs, Google Cloud APIs, RESTful APIs, System Design(basic)

## Experience

### Alpine Privacy

Jun 2025 – Aug 2025

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.
- Built full-stack AI platforms using **React**, **Python (FastAPI)**, **MongoDB**, containerized with **Docker**, and deployed on a cloud platform.
- Engineered a microservices architecture for independent scaling of frontend and backend services.

## Projects

### AI For Architects: Gen AI For Architects

Jun 2025 – Aug 2025

- 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 – Aug 2025

- 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 faster processing speeds, and a web interface with real-time feedback and error handling.

### BTech Project: Classical Cipher Identification Using Machine Learning

August 2025 – Present

Guide: Dr. Ravi Anand

- Developing a machine learning classifier for automatic detection of 16 classical cipher types from ciphertext. Currently preparing datasets; projected performance  $\sim 80\text{--}90\%$  accuracy ( $\text{macro-F1} \geq 0.80$ ). Planned extensions include multilingual evaluation (Mandarin, Urdu) and robustness tests with short/noisy ciphertexts.

### 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.

### Next.js Dashboard Application

Oct 2025

Personal Project

- Developed a **modern responsive dashboard** using **Next.js 16**, **TypeScript**, and **Tailwind CSS**, optimized for **Vercel** deployment.
- Implemented accessible UI components with **Radix UI** and **Shadcn UI**, ensuring a clean and consistent design system.
- Integrated **React Hook Form** and **Zod** for robust form validation, along with **Recharts** for dynamic data visualization.

## Achievements

### •Google Advanced Data Analytics

2025

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

### •Qiskit Global Summer School

2024

Participated in the IBM Quantum Computing Summer School.