

Mohammed Ufraan

+91 81257-09785 | ufraan1@gmail.com | linkedin.com/in/ufraan | github.com/ufraaan

EDUCATION

Lords Institute of Engineering & Technology

Bachelor of Engineering in Computer Science & Engineering

Hyderabad, India

2023 – 2027

EXPERIENCE

Head of Public Relations

Microsoft Students Club LIET

Apr 2024 – Oct 2024

Hyderabad, India

- Led communications and outreach for 500+ members, increasing event attendance through social media campaigns and industry partnerships
- Organized technical workshops, hackathons, and networking events with industry partners and campus organizations

Web Engineering Lead

Google Developer Student Clubs LIET

Oct 2023 – Jun 2024

Hyderabad, India

- Led team of 6 developers building club website and event applications, managing project timelines & code reviews
- Conducted weekly workshops on GitHub, HTML, CSS, JavaScript, and React, training 100+ students
- Built responsive web applications using React and Node.js for club events, serving 300+ active users

PROJECTS

Holo - File Sharing App

Go, WebSocket, Next.js, TypeScript

[GitHub](#)

- Built a **minimalist file sharing web app** with a **Go WebSocket relay backend** and **Next.js + TypeScript** frontend; file bytes are relayed through the server **entirely in memory** with no database or disk writes
- Implemented **chunked file streaming** over WebSockets using **HTML5 File APIs** to avoid RAM spikes during large transfers; rooms and connections are **ephemeral** and auto-expire on inactivity

RAG Bash - AI Document Chatbot

Next.js 15, TypeScript, Neon Postgres, Google Gemini, Clerk

[Live](#) | [GitHub](#)

- Built **Retrieval-Augmented Generation chatbot** with **streaming UI** on Next.js 15/TypeScript; answers user questions from admin-uploaded PDFs using **Google Gemini**
- Implemented **Neon serverless Postgres** with **pgvector** for vector search, modeled via **Drizzle ORM**, with **HNSW indexing** achieving fast semantic retrieval across document embeddings
- Integrated **PDF ingestion pipeline** using LangChain splitters and embeddings with **Clerk role-based access control**; added rich chat UX using Shadcn/Vercel AI Elements and Tailwind CSS

Toraje - Secure File Sharing Application

React 18, TypeScript, Firebase, Vite, CryptoJS

[Live](#) | [GitHub](#)

- Developed **privacy-focused file sharing platform** with **AES-256 client-side encryption** supporting 20MB uploads, 6-digit access codes, and **automatic 69-minute expiration**
- Implemented **Firebase Realtime Database** with custom security rules, browser File API for secure file handling, and **Uint8Array encryption** using CryptoJS
- Built **responsive multi-page interface** with React Router v6, drag-and-drop functionality, **Radix UI primitives**, and Lucide React icons; deployed with **Vite** and Vercel Analytics integration

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL (Postgres), Go

Frameworks: React, Next.js, Node.js, Express, FastAPI

Developer Tools: Git, Docker, Vercel, Cloudflare

VOLUNTEERING

Student Ambassador

Microsoft Learn Student Ambassador

Apr 2024 – Oct 2024

- Promoted Microsoft technologies through campus workshops, reaching 200+ students with hands-on sessions