

Aamer Aijaz Ahmed

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EDUCATION

Muffakham Jah College of Engineering and Technology
Bachelor of Engineering IT (8.76 CGPA)

Expected 2025
Hyderabad, Telenagana

SKILLS

- **Languages:** Golang, Python
- **Familiar With:** Typescript/NodeJS, C/C++, Java
- **Frameworks:** Django, Gin, Echo, GORM, OpenGL

PROJECTS

A Document Search Engine

Go, Postgresql, Docker, Git

- Developed an engine for searching documents (pdf/docx/txt) using vector embeddings
- Generated embeddings for 258,000 words.
- Used Apache Tika for parsing pdf and docx files
- Designed a simple web application that allows users to interface with the search engine
- Documents are stored on the disk with their metadata and their corresponding embeddings stored in PosgreSQL
- Optimized the application using go pprof tools to reduce the average request times from 768us to 334 us.

A DNS Resolver

Go, Git

- Developed a custom DNS resolver using only the Go standard library.
- Resolved DNS queries and returned A Records of the website given its domain name.
- Parsed DNS Packets as per RFC 1035.

File Store REST API

Go, Postgres, Redis, Firebase, Git, Digital Ocean

- Implemented a REST API using GO's Standard Library that allows users to upload and manage files.
- Used Firebase to generate custom tokens and streamline the authentication process.
- Deployed the application on Digital Ocean and used Caddy as a Reverse Proxy
- Used Redis to Cache API responses achieving 62% reduction in response time.

ACHIEVEMENTS

- Winner at HackRevolution 2023 Hackathon

LINKS

- **LinkedIn:** [\(26\) Aamer Aijaz | LinkedIn](#)
- **GitHub:** [ylmngo \(AamerAA\) \(github.com\)](#)