

Karim Ahmed

[LinkedIn](#)[GitHub](#)

Backend Developer

- +201062024268
- 2002/4/4
- Karim77645@gmail.com
- Egypt, Cairo

Summary

A computer science student Passion about Software Engineering And Backend, Trying to invest my college years in learning and building strong basics for my career, I love learning new technologiest and getting into new ideas, I have worked on more than 8 real projects with variety of business requirements using different stacks.

Projects

- Shortify (in progress)

This project automates video creation and editing through two main functionalities: converting text to short videos and generating clips from long videos. Users input text, which is converted to a script via **ChatGPT**, then to speech with **Eleven-Labs**, and finally into video using **MoviePy** on **Modal** Cloud with various style options. For long videos, users can upload a file or provide a YouTube link; **Eleven Labs** transcribes the audio, **Claude AI** identifies key parts, and **Python** scripts generate short clips. Built with **Next.js** and utilizing **Cloudflare KV and R2** for storage, the platform employs a **NoSQL** database and integrates multiple AI services for seamless automation and scalability.

- Momayz

Real world booking app that offers authentication via phone verification and OTP password reset, hassle-free booking flights with concurrency methods to avoid over booking and convenient monthly subscriptions, customer support through real-time chat with voice and image sharing, secure payments integrated with **Paymob**, efficient static file hosting on **Amazon S3**, a robust backend built on **Django** with **PostgreSQL** for reliable data storage, **Redis** for accelerated response times, and responsive mapping, **celery** for background tasks as creating new flights and sending notification before flights.

- Basket

Created a dynamic e-commerce platform with distinct buyer and seller modes. Sellers curate their product offerings, enabling the addition of custom items to a shared basket. Buyers access and confirm real-time order listings, sorted by proximity. Seamless voice and video chat initiates once a buyer claims an order, posts and comments to share with community, while all static files are hosted on **S3**. The backend utilizes **Django** with **PostgreSQL** and **Redis** for responsive mapping.

- Maze Game

This Maze game project features a hero navigating through obstacles to rescue a trapped kid. The game incorporates search algorithms such as **Breadth-First Search**, **Depth-First Search**, **A* Search** for auto-solving. The algorithms are implemented using Python programming language and the **Pygame** library for graphics and user interface. The game's difficulty level is adjustable, providing an entertaining and educational experience for players of all skill levels.

- Programming Language

Currently Working on implementing an interpreted, **dynamically-typed**, OOP programming language using **Java**. I took on this project to improve my knowledge of **OOP**, data structures, **Design patterns** and deepen my understanding of programming languages. The goal is to create a better understanding of how programming languages work.

Education

Facility of Computer and information science Mansoura

2020 - 2024

incomplete

Secondary School

2019 - 2020

93%

Tools& concepts

- | | | |
|-----------|--------------|-----------------------|
| • Python | • Celery | • NextJs |
| • Numpy | • Channels | • ReactJs |
| • Pandas | • SQL | • Cloudflare workers |
| • Pytorch | • CSS + HTML | • NoSQL DB |
| • Django | • WebSockets | • KV & R2 & S3, ..etc |
| • C++ | • CronJobs | • Tailwind |

Volunteering Experience

- *CIS Team*
Data Science member
- *ICPC Team*
PR member
- *CAT Reloaded*
Data Science and PR member

Competitions

- *Dell Hack Trick professionals (5th)*
- *ICPC-ECPC/ Collage 2nd place*