

Gamal M Serag

Back-end Engineer

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Projects & Relevant Experience

Sign language translation application

Back-end Developer, AI engineer

Apr 2020

- Built models to recognize both words and alphabet of sign language using TensorFlow and Keras.
- Deployed the models into android application.
- Built Flask API to use it by the application to process input in cloud in order to provide real-time translation and reduce latency.

Together Awareness App – Graduation Project

Back-end Developer

Jan 2023

- Spearheaded the development of the back-end infrastructure, focusing on data management, server-side functionalities, and system scalability.
- Collaborated with the team to define and implement essential API endpoints and database structures to support the app's functionality.
- Ensured data security and user privacy by implementing authentication and authorization mechanisms.
- Worked closely with front-end developers to establish seamless communication between the front-end and back-end components.

Grantees and Achievements

3rd Place in Dell Envision the Future Graduation Project Competition – MENA Region, Africa, and Turkey

Team leader & Back-end Developer

Aug 2023

- I played a crucial role in our success throughout the challenging 9-month competition, which comprised three phases to deliver a sign language translation application and a corresponding website. My responsibilities encompassed various aspects of the project, including back-end development, server architecture, database management, and ensuring the functionality and scalability of the application..
- One of the key factors contributing to our achievement was the meticulous attention I devoted to crafting a robust back-end infrastructure that seamlessly supported our sign language translation application. Additionally, my ability to effectively communicate our vision through video editing played a pivotal role in showcasing the project's potential..

3rd Place in EUI Climathon Smart Transportation Theme

Back-end developer

Sep 2022

- My responsibilities primarily revolved around developing the back-end infrastructure for the smart transportation system mobile app, including designing and implementing server-side functionalities, optimizing database operations, and ensuring the scalability and reliability of the solution.

EDUCATION

Zagazig University – Zagazig, Egypt

June 2023

Bachelor of Computers & informatics, Computer Science Department

Skills

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|------------------------|-------------------|
| • Back-end development | • Leadership |
| • API Integration | • Public speaking |
| • Database Design | |