

AHMED SABRY

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Education

Cairo University

Master's Degree in Computer Engineering (In Progress)

March 2025 – Present

Giza, Egypt

Cairo University

Bachelor's degree in Computer Engineering, Cumulative Grade: 89%

Sep. 2019 – July 2024

Giza, Egypt

Experience

Microsoft

Machine Learning Researcher Intern

July 2023 – Sep. 2023

Zamalek, Cairo

- Implemented MultiModal Eye Gaze model on mobile screens.
- Trained and Evaluated Multimodal on more than 1.4M images of different mobile screen sizes.
- Achieved 10% & 47% improvement from different baseline models.
- Built Full pipeline of the model using Face Detector, eye Detector, and Gaze model.
- Designed and implemented keyboard using Flutter integrated with AI models.
- Apply Calibration for the Gaze of each user to improve the performance of detection.

ITWorx

Back End Developer Intern

July 2022 – Sep. 2022

Nasr, Cairo

- Low-code / No-code opensource platform to build a full website using pre-defined widgets..
- Implement Restful API using asp.net core 6..
- Apply Onion backend Architecture using OOP & SOLID principles.
- Design fast retrieval SQL database using entity framework code first approach..

Graduation Project

X-Reporto | *Object Detection, LLM, Python, Pytorch, FastAPI, Postgresql, Elasticsearch*

July 2024

- web-based application designed to support radiologists by automating the reporting process for chest X-ray images and producing comprehensive reports and medical diagnosis.
- Enhances image quality to correct X-ray device defects Using GANs.
- Detect anatomical regions in chest and generate visual features using Faster R-CNN.
- Implement GPT2 model to generate final report that describes X-ray chest image.

Projects

Distributed File System | *Go, GRPC, Data Structures*

May 2024

- Implemented a distributed file system with Master and multiple Data Keeper nodes, supporting concurrent operations.
- Implement upload and download large(.mp4) files, with support for replication to ensure fault tolerance and reliability.
- Gained hands-on experience in distributed systems: concurrency, fault tolerance, synchronization, and scalability.

Reddit-Clone | *NodeJS, Express, MongoDB, Firebase*

Dec. 2022

- Designed Backend Software Architecture and fast retrieval NOSQL database for social media in NodeJS.
- Implemented Restful API using express and MongoDB using ODM.
- Applied E2E, API, and Unit testing to APIs.

Light-search | *Java, SpringBoot, MongoDB, React.JS*

May 2022

- Fast search engine for retrieving relevant html web pages.
- Implemented Crawler & Indexer & web user interface for html web pages..
- Design fast retrieval NOSQL database for searching of user queries in java..

Technical Skills

Programming Languages: Python, C, C++, C#, Java, JavaScript, Go, SQL, Assembly, Verilog

Software Concepts: OOP, Data Structures, Algorithms, Problem Solving, Database, Distributed Systems, Design Patterns

Software Development: NodeJS, Flask, Fastapi, Spring boot, ASP.net, SQL, MongoDB, ORM, Git, Docker, Linux

Machine & Deep Learning: TensorFlow, Pytorch, OpenCV, Sklearn, Pandas, Matplotlib, NumPy, Langchain

Achievements

Competitions

- Qualified to ECPC. 2023
- Ranked 1st in ITWorx Coded Summer Competition. 2022
- Ranked in the top 6 in Machathon3.0 Kaggle competition. 2021

Activities

- Machine Learning & Deep Learning instructor at STP'21 student activity. 2021
- Technical organizer at MACHATHON1.1 Event & Machine Learning Competition in STP'20. 2020