Email: s-mark.kirelos@zewailcity.edu.eg LinkedIn - Github - PodcastMobile: +20 120 012 9803

EDUCATION

• University of Science and Technology at Zewail City Bachelor of Computer Science Majoring in Data Science and AI

October, EG

Oct 2022 - June 2026

EXPERIENCE

• ISchool Remote

June 2024 - Aug 2024 Coding Instructor

o Programming: Taught 6th grades basic programming and basic concepts.

• Python: Taught 6th grades python.

• AI and ML: Taught 6th grades basics of AI and ML.

• Steigenberger AL DAU Beach Hotel

Hurghada, EG

June 2023 - Aug 2023

IT Trainee • Hotel Infrastructure: Understood hotel's infrastructure.

• **PC Maintainance**: Maintained the PCs and other devices.

• Network devices: Maintained network devices and cables.

PROJECTS

- Video Slideshow (Github): A cross-platform Electron app for creating dynamic video slideshows. It allows users to bind text slides to video backgrounds using Node.js, HTML, CSS, and FFmpeg.
- Deep Fake Image Detector (Github): A deep learning project designed to detect whether an image is real or generated. Incorporates advanced models such as Inception and ResNet for high accuracy.
- Face Attendance Application (Github): A cross-platform, local-first React Native app for face recognition-based attendance tracking. Powered by Facenet with TFLite and ONNX frameworks (Java implementation), and stores attendance data in a vector database that is based on SQLite.
- Activity Detection Using MHealth (Github): A machine learning project for classifying user activities based on accelerometer and gyroscope data. Includes EDA for the sensor data. Utilizes algorithms such as KNN, SVM, Logistic Regression, and Neural Networks.
- Company Dashboard (Github): A data visualization dashboard for analyzing company performance trends over time. Built with Python, Flask, and AmCharts to deliver interactive and insightful visualizations.
- Schedule to Ical (Github): A web scraper that converts schedules from Ellucian[™]Self-Service into ICS files, enabling seamless integration with calendar providers. Uses puppeteer to scrape your self-service dashboard to get the data
- Adagrad TensorFlow Implementation (Github): An implementation of the Adagrad optimization algorithm from scratch as a TensorFlow optimizer, showcasing a deep understanding of optimization techniques. as a project for Linear and non linear programming course
- Cakery (Github): A full-stack software engineering project featuring Python and flask for the server, PostgreSQL, Firebase push notifications, Next. is, Docker, and CI/CD pipelines to deliver robust and scalable solutions.
- Smart watch Reverse Engineering (Github): Reverse engineered a smart watch to get heartrate data on my PC. Utilized Bluetooth Low Energy (BLE) and Generic ATTribute Profile (GATT) to read the data. Utilized electron to create cross-platform app. HTML, CSS, Bootstrap, and JS