

# MARIAM MAHRAN

+4407522214365 • mariamkhamran@gmail.com • linkedin.com/in/mariam-mahran/ • United Kingdom

## EDUCATION

### Master of Science in Artificial Intelligence

Liverpool John Moores University, Liverpool, UK • Graduating in September 2023

### Bachelor of Science in Computer Science and Engineering

German University in Cairo (GUC), Cairo, Egypt • 2020 • Excellence with honors

## EXPERIENCE

### Full Stack Developer

#### Safer Management

2022 – Present • Texas, USA • Fully remote

- Led as the Front-End Technical Lead for 2 major projects simultaneously, ensuring successful project delivery within the specified timelines.
- Migrated old and complex code to a new, streamlined version, reducing the ratio of old dead code by around 40% and simplifying the existing codebase. This optimization helped improve code maintainability and overall system performance.
- Implemented all projects using the React framework, leveraging its capabilities to deliver highly interactive and responsive user interfaces.

### Full Stack Developer

#### Nodogoro

2020 – 2022 • San Francisco, USA • Fully remote

- Managed and successfully developed 4+ projects for international clients spanning different time zones, ensuring seamless communication.
- Implemented responsive web applications using a tech stack that includes React, TypeScript, Redux, and various other technologies.
- Maintained a strong focus on writing clean and maintainable code throughout the development process.

### Junior Front-End Developer

#### DREIDEV

2018 – 2019 • Cairo, Egypt

- Acquired proficiency in constructing web applications using 2 popular JavaScript frameworks, React.js and Vue.js.
- Gained a solid understanding of functional programming concepts.
- Advanced skills in JavaScript, HTML, CSS, and various JavaScript libraries, strengthening my ability to create engaging user interfaces.

### Junior Teacher Assistant

#### German University in Cairo (GUC)

2016 / 2017 • Cairo, Egypt

- Applied strong Python knowledge to effectively teach a class of 20+ students how to apply programming concepts in real-world scenarios, enhancing their practical skills.
- Conducted 2 interactive lab sessions a week, where I facilitated engaging discussions on new programming concepts, guided students through problem-solving exercises, and maintained a positive and inclusive learning environment.

## PROJECTS

### Bird Species Classification Web Interface Using Flask

2023 • Liverpool John Moores University, Liverpool, UK

A fully dockerized flask web interface for bird species classification using TF Serving and MySQL. The classification model is a Faster R-CNN trained using transfer learning from the Tensorflow model zoo and further optimized on a dataset of 3000 images specially curated for the task of the detection and classification of 3 distinct bird species. The model achieved inferencing accuracy of 91% and a mAP@0.75IOU of 77%.

### Discrimination in Dropout Prediction Systems

2019 • Hochschule für Technik und Wirtschaft (HTW), Berlin, Germany • Bachelor Project

The project explores the emerging issue of discrimination in Artificial Intelligence. The thesis delves into the fundamental concepts of AI, fairness, and learning analytics and employs diverse machine learning algorithms to implement 5 dropout prediction systems with average accuracy of 83%.

## SKILLS

Python TensorFlow ScikitLearn Numpy Pandas RAPIDS DASK Flask Docker Java MySQL Neural Networks XGBoost  
Computer Vision REST APIs JavaScript React.js Agile GitHub/Bitbucket Communication and presentation Teamwork

LANGUAGES: Arabic NATIVE English FLUENT German ELEMENTARY