

Karim Mohamed Omar

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SKILLS

Web Design: HTML/CSS, Bootstrap, TailwindCSS, React, Vue

Backend: Spring, Spring Boot, Hibernate

Programming Languages: JavaScript, Python, Java

ML & Databases: Keras, Pandas, SQL, MongoDB, Firebase

PROJECTS

Export Development Funds (EDF)

- Developed a system for calculating the reimbursement of export burdens to eligible companies in Egypt
- Designed a fully responsive full stack user interface using VueJS & Spring Boot which includes dashboards, request forms, validation systems, dynamic KPI report views and file upload / management
- Integrated Java, Spring Boot, Swagger & OpenText ECM to expose & test APIs, manage SQL databases and create seamless workflows within the application

Pathfinder Xplorer [-Demo-](#)

- Developed a pathfinding algorithm simulator that utilizes React to visually demonstrate how algorithms find their target
- Designed a fully interactable grid system that works using drag mechanics and mode states that change based on user selection
- Incorporated a few of the most popular algorithms which include A*, BFS and DFS to demonstrate the difference in efficiency between them

PROFESSIONAL EXPERIENCE

ASSET TECHNOLOGY GROUP

Software Engineer

Cairo, Egypt

Dec 2022 - Present

- Delivered cutting-edge user interfaces with VueJS, placing a strong emphasis on intuitive design for a superior user experience
- Created APIs using Java and the OpenText ECM platform to communicate between backends, SQL databases and application frontends

FREELANCER

Frontend Web Developer

Cairo, Egypt

Aug 2021 – Dec 2022

- Orchestrated interactive websites for client start-ups to kickstart their businesses
- Utilized server-less services such as Firebase & MongoDB to provide back-end utilities and quick product delivery while maintaining security and project functionality

EDUCATION

UDACITY [-Demo-](#)

React Cross-Skilling Nanodegree

Cairo, Egypt

July 2022 - Aug 2022

NILE UNIVERSITY

Bachelor of Computer-Science

Graduation GPA: 3.91/4.0

Cairo, Egypt

Sep 2018 - July 2022

AWARDS & PUBLICATIONS

IEEE Paper Publication (Smart Customer Care) [-Demo-](#)

Jan 2023

- Published a paper detailing the analysis of consumer opinions of products in Egypt using ML & AI