Mohammed Abdalla

Full-stack software developer, entrepreneur and mechatronics engineer.

Egypt, Turkey, Sudan
+20-1020804390
moe@abdalla.dev
moeabdalla.com

PROFESSIONAL EXPERIENCE .

Sai e-services, Sudan — *Founder, Lead Engineer*

July 2019 - PRESENT

Architected a digital eCommerce platform aimed at improving and empowering entrepreneurs in a unique national economic landscape.

- Managed, built, tested, debugged, and deployed both the front-end client, a progressive web application (PWA) deployed as a trusted web application (TWA), and back-end REST API and database.
- Hosted over 1,000 searchable products across a variety of categories all with an SEO strategy.

African Union Commission, Ethiopia — *Data & Systems Admin.*

May 2018 - July 2019

Managed the data, systems and integrated geoportal for the Global Monitoring for Environment and Security & Africa (GMES) programme.

- Proposed an implementation roadmap, architecture and technical documentation for four tools: web platform, eLearning platform, continental geoportal, forum.
- Lead the early development and prototyping of the first three of the project's platforms.

Udacity, Remote — *Independant Consultant*

October 2017- Jan 2019

Utilized specialized knowledge in the fields of android development (Java) & self-driving (autonomous) cars and my strong communication skills to provide project reviews, code reviews and student other support services.

- Reviewed and guided over 250 student applications with a perfect feedback score of 5 stars and contributed to quality testing new unreleased courses.

EDUCATION .

University of Jordan, Jordan — *M.Sc. Renewable Energy*

SEPTEMBER 2017 - PRESENT

A deep understanding of production, generation, storage, and the transmission of renewable sources of energy with advanced knowledge in power systems management.

SKILLS & FRAMEWORKS .

Full-stack, Frontend, Backend, React JS, Redux, Next.Js, Node.JS, NPM, SPA, Express, PWA, TWA, NoSQL, MongoDB, Git, JavaScript, HTML5, CSS3, Python, C++, Java, XML, Flask, Linux, Java, PostgreSQL,MySQL, SQLite, Android, Apache, PM2, NGINX, ROS, Azure, AWS, GCP, Firebase, TDD, AI, Keras, OpenCV, Agile, Deep Learning, Computer Vision, Machine Learning, ROS, Tensorflow, Notion, Vercel

AWARDS .

Best Overall Design Project Award, UCSI University, Kuala Lumpur, MY

CERTIFICATES .

IELTS Band 8.0, British Council, September 2021

Full Stack Web Developer Nanodegree, Udacity, 2019

Self-Driving Car Nanodegree, Udacity, 2017

Android Basics by Google Nanodegree, Udacity, 2016

LANGUAGES .

English - Fluent

Arabic - Fluent

UCSI University, Malaysia — *B.Eng. (Hons) Mechatronic Engineering*

JANUARY 2011 - JANUARY 2016

An interdisciplinary branch of engineering that focuses on the integration of mechanical, electronic and electrical engineering systems.

PROJECTS

Altulumba Station Status App — *ReactJs / Material UI / NodeJS / ExpressJS / NGINX / PM2 / MongoDB / EC2 / WebPush*

A crowdsourced gas station finding app. During a time of extreme fuel shortages, this app was created to source and spread information regarding the location and availability of fuel across the country. Designed as a PWA for the speed of design and shipment as well as cross-platform support to over 10,000 users.

Airbnb Clone — *ReactJS / NextJS / MapBox / TailwindCSS*

An Airbnb UI clone with functioning date range selection, navigation transitions, Map view with pinned results and fully responsive UI.

Google Docs Clone — *ReactJS / NextJS / DraftJS / TailwindCSS / Firebase / Next-Auth*

A fully responsive Google Docs clone designed with DraftJS, a WYSIWYG rich text editor tool. The deployment utilizes Firebase authorization options for user authentication.

Uber Clone — *React Native / Expo / Redux / Google APIs*

An Uber UI clone with search and routing functionalities powered by the Maps APIs from Google. Developed using React Native for its cross-platform deployment and mobile first approach.

Didi Safety Challenge — Linux / *ROS / C++ / Python / OpenCV*

Built a Keras convolutional neural network classifier and another ROS node in Python to consume the cluster images and determine whether or not each is a vehicle. Achieved a top-50 (44th) score on the Udacity DiDi Challenge leaderboard, from among thousands of entrants.

Udacity's Carla Autonomous Vehicle — Linux / *ROS / C++ / Python / OpenCV / Keras / Scipy*

Designed the Behavioural Planning node (ROS) for Udacity's Self-Driving Car "Carla" as a part of team OSCAR. Implementing a behavioral pipeline for the core logic and path-planning moving the vehicle integrating the output of the perception nodes.

STRENGTHS

Commitment to Lifelong Learning

Oral and Written Communication

Interdisciplinary Team Building