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Mohammed Abdalla

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Technical Skills

Dev. Platforms:	*Web (Full-Stack), Android*
Other Experience:	*AI and Robotics software development*
Other Software:	*AutoCAD, Solidworks, Proteus, ArcGIS, Matlab, LabView*

Recent Project Experience

JRC's GMES & Africa Land Services Training- Info — February 2019
- *Closely reviewed the build of the eStation software, structure and coding environment, the existing products, chains and underlying processes whilst listing new data sets needed for the land services as well as the new chains associated with them.*
- *Successfully trained on eStation updates, troubleshooting procedures and guidelines.*

Remote Sensing for Water Resources Management in Africa - Info — January 2019
- *Successfully completed the coursework and demonstrated the activities covered over catchment U20F in Pietermaritzburg, South Africa*

Autonomous Vehicle Project - Github — *October 2017*
- *Designed the Behavioural Planning node (ROS) for Udacity's Self-Driving Car "Carla" tested on an actual car and test-driving course..*

Semantic Segmentation - Github — *September 2017*
- *Labeled the pixels of a road in images using a Fully Convolutional Network (FCN).*

Model Predictive & PID Controller - Github & Github — *July 2017*
- *Implemented Model Predictive Control in C++ to drive a vehicle around a track even with additional latency between commands.*
- *Implemented a PID controller in C++ to maneuver a vehicle around a track.*

Unscented Kalman Filter - Github — *June 2017*
- *Implemented an Unscented Kalman Filter algorithm in C++ capable of accurately and performantly tracking a turning object.*

Behavioral Cloning - Github — *February 2017*
- *Devised a Deep Learning model to mimic vehicle driving behaviour using Python with Keras on Tensorflow (Regression).*

Recent Work Experience

Sai (Sa3i) eServices - *Full Stack Developer* — *Khartoum, SD | July 2019 - Present*
- *Founded and developed a local eCommerce platform aimed at improving and empowering entrepreneurs in a unique national economic landscape, alSa3i.com*
- *Built, managed & deployed both client (PWA/TWA) and server in multiple configurations, mainly: ReactJs, NodeJS/ExpressJS, MongoDB on manually configured servers for the DB, API and CDN.*

African Union - *Data & Systems Admin, GMES & Africa* — *Addis Ababa, ET | May 2018 - July 2019*
- *Responsible for the Data, Systems and Integrated Geoportal of the Project Mgmt. Team of GMES & Africa*
- *Lead the early development of the project's platforms (Web platform, eLearning, GeoPortal, Forum)*

Udacity - *Independent Consulting* — *Remote | Oct 2017 - Jan 2019*
- *I utilized my 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 other student support services*

Education

University of Jordan in Jordan - M.Sc. Renewable Energy	2020 (Ongoing)
Udacity - Full-Stack Web Developer Nanodegree	May 2019
Udacity - Self Driving Car Nanodegree	October 2017
Udacity - Android Basics Nanodegree	August 2016
UCSI University in Malaysia - B.Eng. (Hons) Mechatronic Engineering	January 2016