

# KHIAL MUSTAPHA

a software engineer with networking skills

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## EXPERIENCE

full-time Back-end web developer

**MAYSTRO DELIVERY, SARL**

📅 MARS 2022 – Ongoing

📍 Algeria, Algiers

- Responsible for engineering core scheduling and delivery algorithms;
- Developing new features and optimizing existing ones;
- Data model design and implementation (OOP, SQL, NoSql);
- Containerization of micro-services and application;
- Using collaboration tools (git & github) and maintaining clean code;

part-time Full-stack web developer

**EasyFoods, eurl**

📅 august 2021 – February 2021

📍 Algeria, remote

- Main developer for back-end and front-end MVP;
- data model (OOP & Sql) design and implementation;
- Writing back-end logic and building modern high performance well documented REST API endpoints.
- Writing front-end React components and pages.
- A/B tests integration with the MVP;
- deploying highly available services on GCP;

full-time Network engineer / administrator

**WI-SAT – intranet**

📅 November 2017 – July 2021

📍 Algeria, Constantine

- Network topology design and configuration;
- Installing and managing UNIFI access points;
- Installing and managing AirMax PTP and PTMP links;
- configuring VPNs (wireguard and openvpn tunnels);
- troubleshooting network and clients problem;
- Implementation of QOS & QOE synchronizer between access points and routers;
- Installing PPPOE & HOTSPOT radius server;
- configuring Mikrotik switches and routers.;

MVPs web developer freelancer

**python web frameworks & React**

📅 September 2018 – April 2020

📍 Algeria, remote

- Full stack developer;
- Writing back-end logic and building modern high performance well documented REST API endpoints.
- Writing front-end React components and pages.

## SOFTSKILLS

Learning Potential

self starter

Flexibility

Responsibility

## STRENGTHS

• Main Development Languages

Python

Javascript

• Javascript frameworks

ExpressJs

NestJs

TypeORM

Sqlize

ReactJs

Redux

• Python Frameworks

Fastapi

django&DRF

Flask

Sqlalchemy

pandas

pytorch

• networking skills

wireless/Wi-Fi networks

TCP/IP

Routing&Switching

Network administration

RADIUS

basic RF understanding

• DevOps

Google Cloud

Docker

CI/CD

Git&Github

• Databases

PostgreSQL

MySQL

• technical skills

TDD

OOP & sql Design

Functional programming

• Development Tools – IDE

Visual Studio code

PyCharm

# PROJECTS

## WI-SAT WISP/HOTSPOT

university campus wireless intranet

 ongoing  Constantine, university campus

- I made my own Wireless internet service/Hotspot from scratch when I was 21 (2017) because we barely had internet in the university campus, at the time i didn't know what is UBNT, i started using Chinese access points, and there were barely any -Unifi- Wi-Fi APs in my country ( now i have +20 that i all bought from out of the country), I designed and maintained it for +4 years, until now, I still check it from time to time when the technician can't figure out what is wrong, I did not expand my network though i really wanted to. in short, i changed internet speed from average of 1Mbps to average 8Mbps for +200 student thanks to Unifi and Airmax and Mikrotik.

## DZbert

Algerian Dialect SA AI Model with Bert

 2021  university of Constantine 02, NTIC

- Algerian Youtube channels comments collector made with Django and Youtube API to collect more than +12 million comments.
- a labeling tool to manually SA label +30000 comments.
- training a Bert SA model on the labeled +30000 (We achieved over 78.3% F1 score and 81.7% accuracy on the testing set).

# EDUCATION

M.Sc. in Computer science  
Engineering – network and distributed systems

**university of Constantine 02, Faculty of New Information and Communication Technologies**

 September 2019 – July 2021

Thesis title: Algerian Dialect Sentiment Analysis with Transformers;

B.Sc. in science of information  
**university of Constantine 02, Faculty of New Information and Communication Technologies**

 September 2016 – July 2019

Thesis title: Algerian Darja audio sentiment analysis;

# LANGUAGES

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|---------|--|
| Arabic  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| English | <div><div></div><div></div><div></div><div></div><div></div></div> |
| French  | <div><div></div><div></div><div></div><div></div><div></div></div> |