

Software Engineer, Datascientist

With a versatile profile (Mahematic, Development, Datascience, Management), I am a very curious and reserved person, so I dedicate myself entirely to my work and try as best as possible to contribute to the sustainable development of our planet.

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Work experience

- Since June 2021
- **Software Engineering**
Exlibris Casablanca
Team size: 1
Exlibris is a dynamic SaaS platform that transforms the way you customize and order rubber stamps online, making it effortless and enjoyable.
 - Formulation of a business plan and market study.
 - Conceptualization of a web application (Exlibris) aimed at allowing entrepreneurs and businesses to design their rubber stamps online and scale the designs using their own Excel data.
 - Development of the backend using ([ASP.NET](#), Entity Framework ORM, SQL Server, ...)
 - Design of the software architecture and its implementation (Microservices architecture, front end for backends/gateway routing, service mesh with Envoy proxy and gRPC, Saga and CQRS for transactions, dockerization of services with Docker, etc...)
 - Data scraping, web crawling, and ETL for the database using Scrapy to generate CSV files and custom classes with Entity Framework for integration with SQL Server.
 - Modeling, implementation, and initialization of the database using SQL Server and Entity Framework.
 - Design and implementation of the web interface (Figma for design, Angular for implementation).
 - Design and implementation of the online rubber stamp manipulation tool (Angular, NGRX, RXJS, fabric.js), using multiple design patterns (Commands, Memento, Observer, State design patterns, ...)
 - Minimal CI and CD designed and implemented using Azure DevOps and GitHub.
- From June 2020 to May 2021
- **Datascientist / AI Developer**
Spotbills Casablanca
Team size: 5
Spotpeers is a messaging app offering innovative features, such as voice cloning.
 - Conceiving and editing the AI team processes.
 - Product requirement gathering from stakeholders.
 - Documentation over research papers and technologies related to voice / Voice cloning.
 - Contribution toward the hiring process, specifically the interview part.
 - Exploration and testing of the different SOTA (State of the art) models related to ASR (Automatic Speech Recognition : Jasper), TTS (Text to speech: Tacotron2), et voice cloning (SV2TTS).
 - Prototyping TTS systems with it's API.
 - Planning for product scalability and product development (Documentation over industry standards)
 - Coordination between the AI team, management and other departments.
- From January 2019 to July 2019
- **Junior Datascientist**
Skytrend Casablanca
Team size: 3
Augurisk is a platform for assessing risks related to climate change, covering risks such as crime, storms, wildfires, floods, and 8 other risk factors.
 - Documentation over scientific models related to climate change.
 - Planning the project timeline.
 - Data Scrappings through the development and the usage of crawlers via NickJS.
 - Prototyping an MVP, and integration of the ArcGIS platform.
 - Front-end development of the project through Angular 5 and NGRX.
 - Implementation of AWS authentication API, and laying the foundations of the software architecture.
- From July 2018 to December 2018
- **Analyste, développeur**
DSI Service et Conseil Casablanca
Team size: 4
UCAR, a vehicle rental company based in France, engaged in several data science projects.
 - Implementing a reporting system through the usage of PowerBI.
 - Optimisation of SQL Server DB lookups queries.
 - Proposition and implementation of a Front-end Authentication helper, with reduced API usage, using Bloom Filter with Typescript / Angular.
 - Regression algorithm to determine fuel consumption knowing, vehicle path, vehicle type and other factors stored in a MS SQL server DB using Python, Pandas, Numpy & Tensorflow.Artemis : [FullStack]
 - Reworking the Front-end (Angular) and the API (ASP.NET) of the product.

Academical Training

- Sept 2016 - Juil 2017 **Bachelor of Science (Informatique et Réseau)**

[Supinfo](#), Casablanca, Maroc

Diplôme Bachelor of Science en informatique et Réseau.

- Sept 2015 - Juil 2016 **2nd year of Engineering**

[EMSI Centre](#), Casablanca, Maroc

- Sept 2014 - Juil 2015 **1st year License in Mathematics and Informatics**

[Université Paris Descartes](#), Paris, France

Professional Certifications

- [Coursera Stanford University](#): Machine Learning Certification.
- [Coursera Google](#): Data Engineering with Google Cloud Professionnal Certification.

Datascience

Tensorflow
Tensorboard
Numpy
Matplotlib
Pandas
ScikitLearn
Seaborn
Matlab

FrontEnd

Angular2+
Typescript
HTML5
CSS3
Ngrx
Ionic
Javascript
Apache Cordova

Backend

ASP.NET
NodeJs / Express
Django
JEE

Databases

Entity Core
Entity Framework
SQL Server
Firebase
IPFS / Delta-CRDTs

Cloud Computing

GCP
Azure
AWS
Kafka
Hadoop

Project Management

Scrum
Extreme Programming
Google Design Sprint

Atouts

Communication
Teamwork
Best practices & design patterns
Statistics
Data visualization
Algorithmics

Interests

Video Games such as Starcraft 2 / Mindustry or Cities Skylines
Travel
Video game development
Psychological Anime & Mangas such as Kaiji or Liar Game.


Languages

French
English
Arabic

Social networks

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