

# DAVID EL MALIH

## Entry-level Data Scientist | Computer Vision Enthusiast

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delmalih.github.io

## EXPERIENCE

### Research Data Scientist Intern

#### Yoobic

Sep 2018 – Aug 2019 (1 year)

Tel Aviv, IS & Paris, FR

- **Object detection** - Faster RCNN reaching 95% mAP at inference time
- **Segmentation** - Shelves Detection on retail stores images - U-Net reaching 98% accuracy at inference time
- **One shot learning** - Image classification using one image per category - Triplet Network reaching 90% accuracy at inference time
- **Image processing**: Perspective correction and image stitching algorithms

**Techs** : Python, Tensorflow, Keras, OpenCV, Pytorch, GCP Machines

### Software Engineer

#### Paris Digital Lab

Jan 2018 – Jul 2018 (7 months)

Paris, FR

##### IoT Project @ AccorHotels Group

- Development of an IoT device to protect staff from sexual harassment
- Sending and backing up alerts when the staff member notifies a danger

**Techs** : LoraWAN, Arduino, RFID/NFC, Node.js, ReactJS

##### Chatbot Project @ IterimCo

- Development of a recruitment chatbot that pre-qualifies candidates
- Development of an admin dashboard to follow and control chatbot's actions

**Techs** : Python, Flask, Dialogflow, Node.js, ReactJS

##### Data Science Project @ RATP Group

- Anomaly detection from given daily logs on a subway line
- Unsupervised pattern recognition in unstructured log-data

**Techs** : Python, Tensorflow, Keras, LSTMs, Pandas, Flask, ReactJS

### Data Scientist Intern

#### Valeo Group

Jun 2017 – Jul 2017 (2 months)

Paris, FR

- **Focus adjustment** algorithm on infrared camera
- Development of an **embedded facial recognition** algorithm

**Techs** : Python, Tensorflow, OpenCV, Siamese Networks

### Full Stack Developer

#### ConduiteCenter

Jan 2017 – Jan 2017 (1 year)

Paris, FR

- Development of the website my.conduitecenter.fr for an **online driving school**
- Scheduling courses - Online payments - Automatic invoices and contracts

**Techs** : ReactJS, Node.js, Firebase, Docker, GCP Machines

## EDUCATION

### MSc, Artificial Intelligence

#### CentraleSupelec

2016 - 2020

Paris, FR

- **Mathematics** : Statistics, Probability, Large Scale Optimization, Game Theory
- **Data Science** : Machine Learning, Deep Learning, AI, Reinforcement learning, NLP
- **Software Engineering** : Software development & OOP (Python & Java)

### Intensive Scientific Courses

#### Lycée Janson de Sailly

2014 - 2016

Paris, FR

Two intensive years of scientific course to prepare the selective entrance exams for the top engineering schools in France

## SKILLS

Python	OpenCV	Tensorflow
Pytorch	Keras	Flask
Java	C/C++	Docker
SQL	MongoDB	

## RELEVANT PROJECTS

- **Breast Cancer Detection** on mammograms - Reaching a mAP of 97%.
- **One-Shot Image Classifier** - Reaching an accuracy of 90%.
- **Shelves Detector** using segmentation - Reaching a pixel accuracy of 98%
- ... (More on [delmalih.github.io](https://delmalih.github.io))

## CERTIFICATES & COURSES

Machine Learning by Stanford University on Coursera

[Certificate ID: 5ESK7HAM48SE](#)

Deep Learning Specialization by deeplearning.ai on Coursera

[Certificate ID: 9JG5RVYFBVGM](#)

## LANGUAGES

French  
English  
Hebrew

Native  
Full professional proficiency  
High working proficiency