

# Moulaï Hassina Safaa

Described as calm and eager learner, solving problems is a passion of mine as much as mastering tools and programming languages. I'm looking forward to gather more knowledge about computer science especially Artificial intelligence, Computer networks, Big Data and Optimization.



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[github.com/moulaihassina](https://github.com/moulaihassina)  
projects

## Education

09/2017 - 07/2019

### Masters - Intelligent Computer Systems

University of Science and Technology Houari Boumediene, Algiers

Machine Learning | Complexity | Operating systems | Natural Language Processing | Data Mining | Information Retrieval | Knowledge representation and reasoning | Constraint programming | e-Commerce & Web services | Advanced Databases(Object oriented).

09/2014 – 06/2017

### Bachelor - Computer science

University of Science and Technology Houari Boumediene, Algiers

Mathematics | Algorithmics | Operational research | Computer architecture | Databases | Network | Programming and Web development | semantic web | DOM documents | Physics | electronic .

07/2014

### Scientific Baccalaureate

El Seddik Abdellah High School, Algiers

Mathematics | Physics | Chemistry | Natural science | Foreign languages(Fr+En) | Philosophy | History and geography.

# Work experience

06/2016 – 07/2017

Algiers

## Call Center Operator (summer job) SCI PIERRE EPARGNE

- . Calling Potential Customers.
- . Developed statistics over people's savings preferences.
- . Convincing Customers to invest in Pierre Epargne company.

11/2018 - 07/2019

Algiers

## Intern, Master's Graduation Project IADM, Computer Science Dprt./USTHB

- . Created a simulator for different environments (complex, simple, semi-complex).
- . Created Multi-robots system to look for targets in unknown environments
- . Implemented strategies for avoiding obstacles in unknown environments.
- . Implemented planning strategies based on swarm intelligence to look for targets in unknown environments.
- . Visualization in real time of the search (simulator self-made).
- . Implemented a strategy to fix and optimize parameters of planning algorithms.

Technologies: Python, numpy, Matplotlib, PIL, Java, Javafx, Jfoenix, Css.

11/2016 - 06/2017

Algiers

## Intern, Licence's Graduation Project Riima, Computer Science Dprt./USTHB

- . Created a board emulator using the depth of images.
- . Created Air drawing application.
- . Extraction of information from images (colour, distance, shape).
- . Developed the Draw and Erase drawings functions.

Technologies: C++, Kinect tools, Opencv, OpenNI.

# Skills & competences

## Programming Language

Python, Perl, Matlab, Java, C++, C, Latex Javascript,

## Data Science

### Machine Learning

Matlab toolbox , TensorFlow.

### Data Manipulation

Data Cleansing, Data Scraping, Data Visualization, Numpy.

## Natural Language Processing

Text Classification, Corpus Building, NLTK

## Image Processing

- Digital image transformation
- Opencv tool
- Colour detection

## Data Mining

- Structure Data
- Preprocessing Data
- Knowledge Extraction
- Exploration Knowledge
- Visualization

## Backend

Django.

## Databases &Storage

MySQL, SPARQL.

## Frontend

Bootstrap, HTML, CSS.

## Tools

Git, Kinect(computer vision), Cisco (networks), Jade, Jason (Agent-oriented Programming), Libre office, IntelliJ, Pycharm, Eclipse, Qt creator, IP webcam, Protégé ( ontology).

## Languages

Arabic(native)  
French(bilingual)  
English(advanced)

Algiers

## Extracurricular

06/2018

Leapfrog Hackathon  
DarTech- Dounia Park, Algiers

Algiers

05/2017

Competition of the best final project (3rd place)  
University of Science and Technology Houari Boumediene

## Interests

Volunteer Work | Free/Open source software | Community Involvement | Club Memberships |  
Problem solving | Books | Learning languages.

## OS preference

GNU/Linux(native)  
MacOS(bilingual)  
MS Windows(advanced)