

# Lydia AIT OUCHEGGOU

## (22 years old)

4th year computer science student

Organized, versatile and motivated, I have a critical thinking with strong skills in communication and collaboration, and also fascinated by artificial intelligence.

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## WORK EXPERIENCE

### MOBILE DEVELOPER

Omotion Technologies

02/2019 – Present

Algiers, Algeria

- Development of mobile applications with JAVA for Google Play.
- Designing and sketching applications with AdobeXD.

### INTERSHIPE

AL SALAM Bank

09/2019 – 10/2019

Algiers, Algeria

- Implementation of a web portal within AL SALAM bank.
- Interacting directly with customers during development to update order requirements, give feedback on testing procedures, and ensure final product met operational targets.
- Creating a database and integrating data from the documentary base of the bank.
- Writing a clean, testable, reliable and reusable code.

## ACADEMIC PROJECTS

Mini-projects in machine learning (02/2020 – Present)

- Implementation of simple linear regression and polynomial regression models.
- Implementation of binary and multinomial logistic regression with ordinal and One Hot encoding.
- Implementation of automatic algorithms to build decision trees (IDE3, CART)
- Implementation of a Naïve Bayes classifier.
- Comparison between the random forests classification algorithms (CART, Naive Bayes, Logistic regression), and those of regression (CART, Linear regression) in terms of convergence time and performance time.
- Course on support vector machine (SVM).

QoS-based flow control system over VPN / MPLS (12/2019 – 03/2020)

- Handling of protocols: MPLS, VRF, OSPF, RIP, BGP.
- Server and IOS: Linux, DHCPv6 server, Cisco IOS, Asterisk, Ekiga.

Compilation (09/2019 – 02/2020)

- Lexical analysis, top-down and bottom-up syntax, semantic analysis.
- Code generation for various machines (Native code and byte code for VM).

Monitoring the management of ESI advances and receipts (03/2018 – 05/2018)

- Analysis, conception and realization of the database.
- Achievement of statistics on ESI advances and revenues.

## EDUCATION

Engineering Degree in Computer Science

Ecole Supérieure d'Informatique (ranked 1st in Algeria)

09/2016 – Present

Algiers, Algeria

Baccalaureate, mathematical series ("very good" mention)

Mustapha BEN BOULAID High School

09/2013 – 07/2016

Tizi-Ouzou, Algeria

## SKILLS

Data science: Machine Learning, Data analysis, Simulation and Stochastic Models, Probability and statistics, Python (Sklearn, numpy, matplotlib, pandas)

Lexical, Syntactic and Semantic Analysis: JavaCC, Lex

Mastery of DBMS: MySQL, SQLServer, SQLite

Web Backend Development: Laravel, PHP

Frontend Web Development: HTML, CSS

Other programming languages: Java, C, C #

Project management: Gantt, MSProject, Trello, Git, GitHub

Other skills: MS Office, Public speaking, Communication

## ACHIEVEMENTS

Hack UPC Barcelona 2019

Participation in the Hack UPC international hackathon, one of the largest hackathons in Europe.

## CERTIFICATES

CISCO CCNA Routing and Switching (CCNA2) (03/2020 – Present)

CISCO CCNA Networking Basics (CCNA1) (12/2019 – 03/2020)

Advanced French language diploma (DEL F B2) (09/2017)

Red Crescent First Aid (07/2016)

## LANGUAGES

Kabyle



French



English



Arabic

