Ayoub Benaissa

Blida, Algeria

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Education

Ecole Supérieure en Informatique 08 Mai 1945

Sidi Bel Abbès, Algeria

MASTER OF SCIENCE - COMPUTER SCIENCE

Sep 2015 - July 2020

Malek Ben Nabi Blida, Algeria

BACCALAUREATE

Sep 2012 - July 2015

• Option: Technical Mathematics and Electrical Engineering Stream.

• Rating: Good, with 15,95 out of 20.

Experience

OpenMined Algeria

CORE DEVELOPER Oct 2019 - PRESENT

- · Member of the crypto team, working on privacy-preserving machine learning.
- · Democratizing the use of homomorphic encryption in deep learning by developing and maintaining the TenSEAL library.
- Worked on a library for private set intersection during the Covid-19 pandemic.

RAAIS Foundation Algeria

OPENMINED-PYTORCH FELLOW

Jan 2020 - July 2020

- Integrating Facebook Crypten framework into PySyft.
- Make secure multi party computation available to use through a simple and intuitive API.

Realistic Security Algiers, Algeria

DEVOPS ENGINEER

Feb 2019 - Dec 2019

• Build a training lab of more than 50 virtual machines for penetration testing students.

Docker, INC Algeria

DOCKER COMMUNITY LEADER Aug 2018 - PRESENT

- · Organize meetups around container technology.
- · Teaching about container technologies.

SFIZER GLOBAL SOLUTIONS Sidi Bel Abbès

JUNIOR SOFTWARE ENGINEER

Sep 2018 - Dec 2018

- Design and implement a data analytics platform for clients.
- I was working on the backend part with Django framework and deploying the product with Docker on an AWS EC2 instance.

Realistic Security

Algiers, Algeria

TRAINEE Sep 2018

• System administration tasks.

Projects _____

TenSEAL

Dec 2019 - PRESENT

 A library for doing homomorphic encryption operations on tensors. It provides ways for training and evaluating machine learning models on encrypted data.

CrypTen Integration into PySyft

Jan 2020 - July 2020

• Provides a new way for running efficient secure multi-party computation protocols in PySyft to manipulate neural networks on private data.

Malware Revealer

Feb 2019 - Sep 2019

Malware Revealer is a malware classification framework, designed primarily for malware detection, it contains a modular toolset for feature
extraction, as well as pre-trained models and a ready to use web API for making predictions.

Pneumonia Detector

Dec 2018 - Jan 2019

- A trained neural network that can diagnose Pneumonia on chest x-ray, wrapped by an easy to use web application. It was selected as the best healthcare project by Udacity and Facebook during the Deep Learning with Pytorch challenge.
- Best Health-care project during the Facebook deep learning challenge.

OpenClass

Feb 2018 - June 2018

• OpenClass is a web app that promotes information sharing through organized workshops.

ESI Linux

Feb 2017 - June 2017

• ESI Linux is a Linux distribution made for ESI-SBA (Ecole supérieure en informatique 08 Mai 1945) students particularly, it provides all the necessary tools for their curriculum.

Certifications

CCNA Cyber Ops

Cisco Oct 2018 - Oct 2021

Machine Learning

COURSERA Sep 2018

Deep Learning Nanodegree

UDACITY Apr 2019

Deep Reinforcement Learning Nanodegree

UDACITY Nov 2019

Skills _____

Machine Learning Scikit-Learn, PyTorch

DevOps Docker, Ansible

Programming Languages Python, C/C++, JavaScript, Java, X86 Assembly

Relational Database MariaDB, PostgreSQL **Hardware** Arduino, Raspberry PI

Others Git, Web Scrapping with Selenium, Django framework, KVM, Reverse Engineering (ELF and APK)

Languages Arabic (Native), French (Fluent), English (Proficient)

Courses _

- Algorithms, Object Oriented Programming, Language Theory and Compilation;
- Mathematical Analysis, Linear Algebra, Statistics
- Embedded Systems, Electronics, Digital Logic, Computer Architecture and Organization;
- Operating Systems, Computer Networks, Relational Databases, Cryptography, Cyber Security;
- Software Engineering, Distributed Systems;
- Machine Learning, Deep Learning.

Community Leader Award Docker Community Leader Award	DockerCon 2020 May 2020
CSAW'19 CTF	
Second place for "Sudo_root" at the Cyber Security Awareness Week, New York University Abu Dhabi.	Nov 2019
HITB Abu Dhabi standoff 2019	
FOURTH PLACE FOR "SUDO_ROOT" AT HACK IN THE BOX ABU DHABI STANDOFF COMPETITION.	Oct 2019
Arab Regional CTF 2019	
SECOND PLACE FOR "SUDO_ROOT" AT THE ANNUAL ARAB REGIONAL CAPTURE THE FLAG COMPETITION ORGANIZED BY CYBERTALENTS.	Sep 2019
SecuriNets CTF	
THIRD PLACE FOR "SUDO_ROOT" AT THE ANNUAL SECURINETS QUALIFICATION CAPTURE THE FLAG COMPETITION.	Mar 2019
Deep Learning with Pytorch Challenge	
Our project "Pneumonia Detector" got selected by Udacity and Facebook as the best healthcare project.	Jan 2019
Hacklab CTF	
FOURTH PLACE FOR "SUDO_ROOT" AT THE HACKLAB CAPTURE THE FLAG COMPETITION, ESGI PARIS.	Mar 2018
CSAW'17 CTF	
Third place for "Sudo_root" at the Cyber Security Awareness Week, New York University Abu Dhabi.	Nov 2017
Himayatic CTF	
FIRST FOR "SUDO_ROOT" AT THE HIMAYATIC CAPTURE THE FLAG COMPETITION.	Oct 2017
Major Leage Hacking - Local Hack Day	
FIRST PLACE AT THE AUTOBOT13 PROGRAMMING COMPETITION ORGANIZED BY THE MAJOR LEAGUE HACKING LOCAL HACK DAY.	Dec 2016

Activities _____

Awards _

- Contributing to opensource projects that relates to cyber-security and machine learning.
- Co-founder of Ingeniums club and head of the OpenClass project whose main purpose is sharing knowledge between students through workshops.
- Since 2016, I have been an instructor at workshops on Docker, Machine Learning, Python Programming, Linux Binary Analysis and Exploitation, Cryptography and others.