MICHEL OMAR AFLAK

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EDUCATION

Ecole Centrale d'Electronique de Paris – *Engineering School*

Sept 2017 – *Present*

Graph Theory, Math Analysis, Operating Systems, Network

INSEEC London – *Engineering School*

Sept 2018 – Dec 2018

Image Processing, NLP, Blockchain

Institut Supérieur d'Electronique de Paris – *Engineering School*

Sept 2016 – Jul 2017

Control Theory, Calculus & Linear Algebra

EXPERIENCE

Zenly (Snapchat), Paris — *Software Engineer Intern*

April 2020 – Aug 2020

- Developed a graphic tool library on Android allowing to draw, animate, write text and play GIFs on top of images and videos, including an undo/redo framework: in production work.
- Improved video encoding settings. *Used Kotlin.*

Twitter, London — *Software Engineer Intern*

Jun 2019 – Sept 2019

- Worked with Media Client Infrastructure team. Improved video quality on high speed networks by developing a bitrate prediction model. A/B tested on 6M users, observed an increase in ads revenue by +0.56%, # of retweets by +0.74%, # of likes by +0.25%. *Used Python - matplotlib, seaborn, pandas ; Objective-C.*

RandomCoffee, STATION F Paris — *Software Engineer Intern*

Dec 2018 – Feb 2019

- RandomCoffee get employees in a company to meet each other based on their preferences. Generalized the way of expressing matching rules.
- Developed a matching algorithm (derived version of K-Medoid) that can match any number of people together instead of only 2 previously, given a set of constraints. *Used Python - django, matplotlib, pandas ; NodeJs - express, Docker.*

Tribe, Los Angeles — *Machine Learning Intern*

Jan 2018 – Feb 2018

- Tribe is a live-cam mobile app with embedded AR games. Developed a mobile embedded machine learning model able to recognize hand gestures. *Used Python - tensorflow, keras.*

RECENT PROJECTS

Leaf

Sept 2019 — April 2020

Leaf is a device with with radio capabilities that can be plugged directly into an Android device or a computer. People using Leaf form a **mesh network** that allows them to communicate over long distances (up to 3km between each node in the graph) without any internet connection, carrier network, bluetooth, etc. This personal project was POC to demonstrate possible alternatives for private communications.

AWARDS

France Engineering Olympiad — *Schneider Electric, Paris*

May 2016

"Best Scientific Innovation" award. 6th national place, 2nd regional place. Arrow impact prediction system.

Paris Engineering Olympiad — *GRDF, Paris*

May 2015

3rd regional place, reached national competition. Gyroscopic mouse designed to filter essential tremors (movement disorder).

SKILLS

Programming	C++, Java, Kotlin, Python, NodeJs, Javascript
Tools	Git, Shell, Firebase, LaTeX, Make, CI, Docker
General	Mathematics, Machine Learning

LANGUAGES

French	Fluent
English	Fluent
Arabic	Fluent