

Rafael Cartenet

MACHINE-LEARNING R&D ENGINEER

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Experience

Openfield

Paris, France

MACHINE-LEARNING R&D ENGINEER

June 2018 – Present

- Participated in design and implementation of a geo-oriented product for spatial intelligence and visualization.
- Passengers flow analysis over french railway network, real-time flow analysis using mobile devices' WiFi signals.
- Implemented several generic functions such as sequence generation, path anonymisation, outliers detection.

Mediasia Labs

Shanghai, China

MACHINE-LEARNING R&D ENGINEER INTERN

Aug. 2017 – Feb. 2018

- Designed, implemented and trained Deep-Learning models for speech segmentation and phoneme classification.
- Developed phonetic pronunciation evaluation tool for language learners, using BLSTM and dynamic programming algorithm.

AIM KAIST

Daejeon, S.Korea

RESEARCH ASSISTANT, LABORATORY INTERN

March 2017 – June 2017

- Interned at AIM laboratory (Artificial Intelligence & Machine-Learning) under supervision of Pr. Chang D. Yoo.
- Participated in CVPR'17 Workshop on Youtube-8M Dataset: Video Classification. Implemented Attention-Based Bidirectional LSTM.

Aerow Digital

Paris, France

SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2016 – Aug. 2016

- Designed and implemented simple OCR for bank cheques CMC7 code extraction, tried SVM and simple Neural Net.
- Configuration and implementation of the Blackberry's Mobile Device Management solution for an environment of 50 users.

Education

KAIST (Korea Advanced Institute of Science and Technology)

Daejeon, S.Korea

GRADUATE EXCHANGE PROGRAM

Sept. 2016 – June. 2017

- Specialized in Computer Science with a Machine Learning minor.
- Coursework: Deep Learning, Natural Language Processing, Computer Vision, Search Based Soft. Eng., AI and Machine Learning.

INSA (National Institute of Applied Sciences)

Rouen, France

MASTER OF ENGINEERING (M.ENG.)

Sept. 2012 – April 2016

- Specialized in Mathematics and Computer Science.
- Coursework: Algorithms, Optimization, Markov Chains, Linear Algebra, Statistics, Differential Equations, Probability, Databases.

Extracurricular Activities

Various projects

- MCQ bot: Implemented simple AI to reply to simple multiple choice questions with an accuracy of 85%, for trivia apps. 2016 - 2018
- Mini AlphaGo: Trained an AlphaGo-based AI of Go game, using Deep Neural Nets and MonteCarlo Treesearch.
- Vitaminst: Developed an Instagram bot for human-like behaviour using IG's API, running on several Raspberry Pis, centralized MongoDB.
- Resource Allocation Optimization: Using search-based optimization techniques, optimized virtual machines distribution in the Cloud.

Competitive Programming

- Hackatons GoogleHashcode 2015, ACM ICPC KAIST Mock Competition, Cod'INSA, BattleDev 2014 - 2017
- CodinGame.com: AI monthly challenges (top 10 python3), HackerRank

Skill highlights

Programming

- Proficient with: Python, Tensorflow, Apache Spark, C/C++, Torch7, Scikit-Learn, Matlab, MongoDB, Bash, Git.
- Familiar with: Java, SQL, Lua.

Spoken languages

- French: Native Language
- English: Professional proficiency
- Spanish: Proficient
- Mandarin: Basics