Rafael **Cartenet**

GRADUATE MACHINE LEARNING ENGINEER

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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, Computer Vision, Search Based Soft. Eng., Natural Language Processing, 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, Database.

Experience

Mediasia Labs *Shanghai, China*
MACHINE LEARNING - AUDIO, R&D ENGINEER INTERN *Aug. 2017 - Feb. 2018*

- Research and development on emotion recognition in voice.
- Working on phonetic-level pronunciation assessment tool for language learners, using several ML techniques, clustering and classification.
- Designed and implemented phonetic segmentation tool using ML prediction model and dynamic programming based matching algorithm.

SLSP KAIST *Daejon, S.Korea*
RESEARCH ASSISTANT, LABORATORY INTERN *March 2017 –June 2017*

- Interned at SLSP laboratory (Statistical Learning for Signal Processing) 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 DEVELOPER INTERN *Sept. 2016 –April 2016*

- Designed and implemented data-driven OCR for bank check CRC7 code using ML model for daily-automatized extraction.
- Configured and integrated Blackberry's Mobile Device Management solution for an environment of 50 users.

Extracurricular Activities

Various projects
DEVELOPER *2016 - 2017*

- Mini AlphaGo: Trained an AlphaGo-based AI of Go game, using Deep Neural Nets and MonteCarlo Treesearch.
- Depth from Focus: Depth refinement algorithm using image alignments and graph cuts methods.
- Resource Allocation Optimization: Using search-based optimization techniques, optimized virtual machines distribution in the Cloud.
- Instagram Robot: Designed and developed Instagram bot for automatic comments generation using Json requests and python routines.

Competitive Programming
COMPETITOR *2014 - 2017*

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

Skill highlights

Programming

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

Spoken languages

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