

Rafael Cartenet

MACHINE-LEARNING R&D ENGINEER

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Looking for Machine-learning Engineer position in Shanghai from June, eligible for a work permit.

Experience

Openfield

Paris, France

DATA ENGINEER

June 2018 - Present

- R&D and implementation of a location-intelligence workflow, based on WiFi and sensors data, for retail industry.
- Design and implementation of a cloud based KPI workflow from ticketing data to business indicators, using spark.
- Integration of data quality treatments within existing workflows for operations monitoring and fault tracking.
- Designed and implemented simple MVP for shopping malls affluence forecasting, using DeepLearning.
- Scrum Master: responsible for applying agile methodology and scrum principles within the data team.
- Improved my Data-Engineering skills: distributed systems, streaming, data-driven development (Spark).

Mediasia Labs

Shanghai, China

MACHINE-LEARNING R&D ENGINEER, END-OF-STUDY INTERNSHIP

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 based matching 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.

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 - 2019
- 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 Raspbery 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 - 2019
- CodinGame.com: AI monthly challenges (top 10 python3), HackerRank

Skill highlights

Technologies

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

Spoken languages

- French: Native Language
- English: Professional proficiency
- **Mandarin: HSK3 (265/300), preparing HSK4**
- Spanish: Proficient