Gabriel HURTADO AI Research Engineer

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WORK EXPERIENCE

JUNE 2019 - AI Research Engineer **HUAWEI** Paris, France
Working with top Machine Learning scientists on highly complex topics, mainly related to Reinforcement Learning. Developed generative algorithms in Python for an open-source framework with very promising initial results in a variety of applications (RAMP). Multiple papers will be submitted at top conferences based on this project, one currently reviewed at ICLR.

JUNE-NOV 2018 Machine Learning Internship **NOKIA** Paris, France
Analyzed and applied the potential of deep learning in the telecommunication sector. Used Natural Language Processing techniques paired with LSTMs, Fasttext and Variational Autoencoders with Tensorflow and Keras. Improved the reliability of the studied system through early failure detection and prediction, enabling to save millions of $.

SUMMER 2017 Summer Research Internship **SIEMENS** Princeton, New Jersey
Developed a probabilistic inference tool in C and Python. Sped up the inference process by a factor of two by adapting and tailoring a custom statistics library, for an embedded device.

SEP-FEB 2016-17 Research Internship **SIEMENS** Princeton, New Jersey
Joined a research team focusing on machine learning topics, investigated various algorithms: Support Vector Machines and Dynamic Bayesian Networks under the supervision of Dr. Justinian Rosca. Improved the accuracy by 35%.

EDUCATION

2018 - 2019 Masters in COMPUTER SCIENCE, **Georgia Institute of Technology**, USA
Degree focused on Machine Learning and Deep Learning. GPA of 3.8/4

2015 - 2018 Engineering degree in COMPUTER SCIENCE, **University of Technology of Compiègne**, France
Specialization in Data Science and Machine Learning. GPA of 3.9/4

FALL 2017 Exchange Semester at **Polytechnique Montréal**, Canada
Six months studying abroad in Computer Science, focus in Artificial Intelligence.

SPRING 2015 Erasmus Semester at **Polytechnic School, Universitat de Lleida**, Spain
Erasmus exchange for a semester, in Computer Science.

PROJECTS

DEEP LEARNING FOR STYLE TRANSFER

Applied Adaptive Instance Normalization for artificial aging of aerial views in PyTorch, Caffe and Tensorflow.
This Neural Style Transfer project was acknowledged in a paper by A. Benbihi at the International Conference on P.A.

DEEP LEARNING FOR SENTIMENT ANALYSIS

Led a team of four students in a project involving standard machine learning techniques along with LSTM networks, in Keras and Tensorflow. The model predicts scores of users' comments with an average error of 0.4 out of 5 stars.

TAXI PREDICTION FOR PORTO

Created a project aiming to understand trends in taxi trips in the city of Porto. Using Python and Cassandra, predicted the most common rides and generated advice for taxi drivers using unsupervised learning.

LANGUAGES

FRENCH: Mother tongue ENGLISH: Fluent SPANISH: Fluent ITALIAN: Advanced

COMPUTER SKILLS

Advanced knowledge: PYTHON, NUMPY, PYTORCH, KERAS, C, C++, JAVA, SQL, NOSQL, MATLAB, R
Knowledge of: UNIX, TENSORFLOW, DOCKER, KUBERNETES, YAML, PROLOG, LaTeX

INTERESTS AND ACTIVITIES

Machine Learning (founder member of DataVenture, a student association promoting AI)
Science, History, Technology, Travelling and Photography