

JEROME KAFROUNI

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Authorized to work in the US

EDUCATION

Columbia University

New York, NY

M.S. in Computer Science, Machine Learning Track, GPA: 3.92

exp. Dec 2018

Relevant courses: Machine Learning, Advanced Database Systems, Machine Learning Products, Cryptography
NLP, Deep Learning, Applied Data Science, Applied Machine Learning

Course Assistant in Introduction to Databases – Course Assistant Fellow in Deep Learning

Awarded for Excellence in Teaching and Service by the Computer Science department

Ecole polytechnique

Paris, FR

M.S. in Computer Science and Entrepreneurship

Jun 2017

Relevant courses: Machine Learning, Regression, Intro to Databases, Case Studies, Startup Creation, Design Thinking

B.S in Computer Science, Applied Mathematics, Economics

Aug 2016

Relevant courses: Algorithms Design, Concurrent Computing, Massive Data Processing, Advanced Programming,
Numerical Approximation and Optimization, Random Events Modeling

EXPERIENCE

IBM

Austin, TX

Machine Learning Engineer Intern - Extreme Blue program

May 2018 – Aug 2018

- Automated core Chip Design processes by training Supervised Machine Learning models using Scikit-learn
- Increased tools speed by 40x by writing and improving data pipelines using Python, Neo4j and MariaDB
- Presented weekly to IBM executives, applied IBM Design Thinking, in an Agile team

Destygo

Paris, FR

Back End Developer Intern

Apr 2017 – Aug 2017

- Rewrote the code of a chatbot to use Multiprocessing efficiently, in Python
- Increased the rate of messages treated by 4x with constant memory use
- Developed a testing interface for the chatbot, in Python, using Flask, SQLAlchemy, Postgres

ClassWallet

Miami, FL

Full Stack Developer Intern

Jun 2016 – Aug 2016

- Performed Web Scraping over a catalog of 100K+ school supply products, using mainly Node.js
- Exported and analyzed the database of products using MongoDB

French Air Force

Evreux, FR

Flight Activity Supervisor Officer

Sep 2014 – Mar 2015

- Developed leadership skills and team spirit in a new and challenging environment
- Trained a recruit of the military reserve force

RECENT PROJECTS

- Reinforcement Learning project for video game playing (Starcraft II) Python, Tensorflow
- Collaborative Filtering algorithms to predict movie ratings and web user visits R
- Image classification with traditional feature extraction vs CNNs R, OpenCV, Keras
- Won in-class Kaggle challenge on CIFAR10 image classification dataset Python, Tensorflow
- Text mining project on "Spooky Literature" Kaggle Dataset R
- Association rules extraction on a large NYC public dataset Python
- Information Extraction system on web search results Python, Stanford CoreNLP
- Information Retrieval system based on Rocchio's Relevance Feedback Python

TECHNICAL SKILLS

Programming: Advanced in Python, R, Scikit-learn, Pandas, PostgreSQL, MariaDB, Keras.

Intermediate in Tensorflow, Flask, GRPC, Neo4J, Javascript, SQLAlchemy.

Beginner in C++, Java, OCaml, jQuery, React.js, Node.js, MongoDB.

Other tools: Github, DataGrip, basics of Google Cloud Services, Adobe Photoshop, Sublime Text