

MAXIME HUBERT

Computer Science Engineer in the Cloud

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EXPERIENCE

Research Engineer (Since April 2017) National Institute of Standards and Technology (NIST)

Washington DC area, USA

IARPA DIVA Video processing 2018 – Now

- Part of a team that designed an evaluation process for Activity Detection algorithms on video footage for the IARPA Deep Intermodal Video Analytics program.
- Allowed the Continuous Delivery and validation of video processing systems using IaaS/PaaS technologies on a GPU-accelerated cluster. Performed evaluation of the performance of video processing algorithms in an automated manner using jobs scheduling and resources abstraction.
 - 10+ GPU-ready systems over 100+ hours of video sets were evaluated and monitored.
 - Speaker in a talk about this work at the Open Infrastructure Summit 2019 in Denver, CO.

Tags: Openstack, GPU cluster, Job scheduling, Data Science, CD, Infrastructure as Code.

DARPA D3M MLaaS 2017 – 2018

- Part of a team that developed, integrated, and supported an evaluation framework for Machine Learning algorithms on a cluster for the DARPA Data Driven Discovery of Models program.
- Allowed a Continuous Delivery and validation of ML systems, as well as the automation of performance evaluation using jobs definitions and scheduling mechanisms.
 - 20+ ML systems over 70+ data sets were evaluated and monitored. This work included the deployment of web applications for human-assisted ML.

Tags: Kubernetes, ELK, Openstack, Docker, Python, Machine Learning, Job scheduling, Data science, CD.

IARPA MATERIAL Machine Translation 2017 – Now

- Maintained data sets and code for the IARPA Machine Translation for English Retrieval of Information in Any Language (MATERIAL) program.
- Implemented metrics calculators, data management scripts, and interactive analyzers to read the performance of MT information retrieval systems.
 - Worked towards standardizing, version-controlling, and documenting the different steps of the evaluation pipeline: from the MT data sets collection to the calculation of MT systems performance metrics.

Tags: Data analysis, Data standardization, Python, Numpy, Pandas, Jupyter.

Internship: Network Support Technician (Summer 2016) Crown Holdings

Wantage Oxfordshire, UK

Network support WAN

- Part of a team of network technicians that provided support, troubleshooting and maintenance on an international company network.
- Provided users with remote assistance.
 - Worked on updating the process to connect industrial monitors to the network by redacting configuration procedures.

Tags: WAN, Network, Support.

University projects:

Ministry of Defense, France 2017 – 6 months

Part of a team that prototyped an embedded solution to interact with flash memory.

L'Oréal & CRAN, France 2016 – 2 months

Studied the feasibility of an AI algorithm performing image classification.

AVAILABILITY

October 2019

France

SKILLS (1 TO 5)

Programming languages:

Python (4) Shell (4) C/C++ (2)
HTML/CSS/PHP/JS (3) Ruby (2)

Frameworks & Libraries:

Pandas / Numpy (4)
Sklern/Scipy (2) OpenCV (1)
Jupyter (4) Rails (2) ...

Infrastructure & Databases:

Ansible (4) Openstack (4)
Docker (4) Kubernetes (3)
ELK (4) MySQL, PostgreSQL (4)

Tools & Utilities:

Git Gitlab DevOps Google Apps
MS Office Adobe CC

Would love to discover:

Go Tensorflow Pytorch AWS
GCE

LANGUAGES

English (Fluent) Writing, speaking
French (Native) Writing, speaking

EDUCATION

M.S. in Computer Science
Sept 2014 – Nov 2017
Telecom Nancy

Specialization in embedded systems.

HOBBIES

Tech (of course) - Science - Photography
- Cooking - Scuba diving

References available upon request.