

Gautier DERVAUX

Looking for a 4 month internship in summer 2019 (May - August)

Team work driven, I had the chance to live several years in different countries around Europe and in Canada which brought me a lot and made me value diversity. My double diploma cursus between IMT Atlantique and Polytechnique Montréal is a clear illustration. To sum things up:

I look for an internship

- in Summer (and in part time in Fall if possible)
- In machine learning and artificial intelligence
- In a dynamic team

My skills

- A strong mathematical background in Statistics, linear algebra etc
- Machine learning theory and experience with scikit-learn and TensorFlow
- Python, Matlab, SQL et other programming skills

I am

- Ressourceful and willing to take responsibilities
- Social
- Curious



Professional Experience

Summer internship

INRIA (Institut National de Recherche en Informatique et en Automatique) in APICS team

- Locate and characterize skin cancer tumors
- Thermal imagery analysis
- Literature study
- Formalise and solve direct mathematical equations and numerically solve the inverse problem with a grid search.

Data science and Machine Learning projects

Python & Javascript-D3 developer

- Collaboration with L'Université du Québec à Montréal (UQAM)
- 7 people team
- **Webscraping** of twitter's API in *Python*
- **Development** of interactive data visualisation in *d3*
- Performance optimisation
- Visualisation design to max efficiency
- Responsiveness of the dataviz
- Prototype:

Data analyst and AI designer

- Challenge in "Algorithmic Machine Learning" course at Eurécom school
- Goal: build a machine learning model to predict houses sale price.
- Preprocessing, analysis and design of a machine learning pipeline.
- I learned to build, design and improve a machine learning pipeline.
- Autonomous work by groups of 2.
- Implementation in Jupyter Notebook© *Python* with *Pandas*, *Scikit-Learn* libraries.

Python - Matlab programmer

Uncertainty Quantification tools: predicting uncertain scenarios and facing the curse of dimensionality

- "Research" project
- Scientific literature study
- Development of regression solutions targetting machine learning
- Tutor : M. Francesco FERRANTI
- Autonomous work

Study and apply Genetic Algorithms in the case of network wavelength routing

- Study of Genetic Algorithms theory through the literature.
- *Caml* and *Python* implementation
- Autonomous 2 year work

July - August
2017



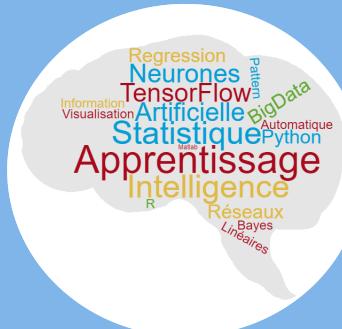
January - May
2019
50 hours

February - June
2018
70 hours

February - June
2017
4 hours
per week

2014 - 2016
240 hours

Skills



Python

Spark Scikit-learn
Pandas TensorFlow
Numpy Seaborn

JavaScript

Jquery Express
d3 Angular

Matlab

SQL

Java

C

C#

R



Language

French	Mother tongue
English	Bilingual
German	Intermediary +
Spanish	Bases
Japonese	Notions



2018 - 2020

Education

Polytechnique Montréal

Master degree in computer science

Double-diploma with IMT Atlantique



2016 - 2020

IMT Atlantique (ex Télécom Bretagne) of Institut Mines Télécom

General track, major : Mathematics and signal processing



2017 - 2018

Eurécom (Sophia Antipolis)

Data Science track

Specialisation: Big Data, Machine Learning and Cloud Computing.
Education in English.



2016 - 2017

Université Bretagne Occidentale

License 3 in Mathematics

(Baccalauréat level in Quebec) option "*Stochastic Simulation and Statistics*"



January - May
2019
170 heures

Fall Session
2017
100 heures

October 2017 -
January 2018
120 hours

Academic Project (others)

C# programmer with Unity

- Virtual reality application
- Collaboration between two systems: HTC VIVE & Cave Automatic Virtual Environment
- Design and improve immersion feeling through social interactions between the two players
- Latency managing

Web Developer

- Dynamic and transactional web site.
- Web application architecture study.
- Model View Controller programming.
- Web Services development with a *MongoDB* DB.
- Used technology:
HTML, CSS, Javascript, JQuery
NodeJs, Express, Pug
Angular

Project Leader

- Develop a multi-threading cartography C [application](#) on a Lego™ ev3 robot.
- Intercultural team of 4.
- Projet management.
- Sharing work.
- [The resulting robot.](#)



Hobbies & associations



2017 Head of video editing association: [Movi't](#)

9 Members with a 1500 euros budget



Video editing : short-story writing and production



Team sport

Volleyball, Football (Soccer)



Cooking

Tools

Cloud Platform



Frameworks

.Net
Eclipse
Visual Studio

Softwares

Git
Tableau
Eclipse

IDE

Atom
VSCode

Microsoft Office

Word
Excel

Others

Unity
Tableau



Certificates

Project Management certificate

by passing *Managing Global Projects* with a score of 97.5% taught by [Jean-Jacques Aureglia](#) (Program Manager at IBM).

TOEFL Certificate

with a score of 647

Contact



+1 438-924-4592

gautier.dervaux@polymtl.ca

Montréal, Québec