

# Antonin Carette

Machine Learning Engineer  
Software developer  
TaDaweb, Belval Luxembourg

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## Education

**Master's degree - Univ. Lille1, 2014 - 2016**  
**Computer Science** - Complex Models, Algorithms and Data.  
Villeneuve-d'Ascq, France.

**Bachelor's degree (*cum laude*) - Univ. Lille1, 2012 - 2014**  
**Computer Science.**  
Villeneuve-d'Ascq, France.

## Work experience

**Machine Learning Engineer & Software Developer, November 2018**

**TaDaweb**

Belval, Luxembourg.

Help to develop tools and solutions for the Machine Learning team (vision and NLP projects), and conducts researches for vision projects using PyTorch and FastAI frameworks.

Write production-level code to integrate ML projects in the company's code and existing architecture.  
Go, Python, C++.

**Data Scientist & Software Developer, April - November 2018**

**Dernier Cri**

Lille, France.

Conduct research and development activities for companies (machine learning and big data), and apply research theories, principles, and models when conducting experiments and research activities. Work on Django and React-Native projects, to develop my programming skills between two R&D projects.

Python, JavaScript.

**Assistant Professor, September - December 2017**

University of Luxembourg.

Assist and teach SQL, NoSQL, probabilities/statistics and machine learning for Bachelor students, at the University of Luxembourg.

Python.

**Research and Development Engineer, October - April 2017**

**Dernier Cri**

Lille, France.

Conduct research and development activities for companies (machine learning and big data), and apply research theories, principles, and models when conducting experiments and research activities.

Python, Rust, JavaScript.

**Research and development - LATECE, March - August 2016**

**Latece Team** - Master's internship

Montreal, Canada.

Software development to build a strong protocol to measure the energy consumption of an Android device, in order to evaluate code smells impact.

Python, Rust, Go.

*First author of a research paper, submitted and accepted to SANER 2017.*

**Research project - IRCICA, October - February 2015**

**Emeraude Team** - Master's project

Villeneuve-d'Ascq, France.

State of art about energy consumption models for Android mobile devices, in order to minimise the energy consumption of big.LITTLE processors.

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**Software developer - INRIA, June - August 2015**

**SequeL & Spirals Team** - Internship

Villeneuve-d'Ascq, France.

Software to predict bugs propagation, for Java projects.

Python 3.4.

*Research paper submitted and accepted to RAISE 2016.*

**OCaml tutor for Bachelor students, 2015**

Villeneuve-d'Ascq, France.

Help and teach algorithmic and functional programming to Bachelor students, using OCaml.

OCaml.

## Books and research papers

Book reviewer for **Mastering Rust**, by Vesa Kaihlavirta

*Packt Pub, May 2017.*

**Investigating the Energy Impact of Android Smells**

*24th IEEE International Conference on Software Analysis, Evolution and Reengineering, February 2017, Klagenfurt, Austria.*

**A Learning Algorithm for Change Impact Prediction**

*5th International Workshop on Realizing Artificial Intelligence Synergies in Software Engineering, May 2016, Austin, United States.*

**Energy consumption saving on Android applications**

*Master thesis, supervised by Giuseppe Lipari, Professor of Computer Science at University of Lille.*

## Conferences

**"Machine Learning" is not "Black Magic"**

*TakeOff Conferences, Lille - May 2018.*

**Why You Should Take a Look at Rust**

*FOSDEM, Belgium - February 2018.*

## Programming

Rust, Python, Go.

## Languages

**French** - Mother tongue

**English** - TOEIC (860/995) - C1 European level

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