







Date of birth 16/05/1995   
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Driving licence (B) 

## Languages

**French**  
Native speaker

**English**  
B2-C1 level  
(905 @ TOEIC)

**Spanish**  
Notions

**German**  
Notions

## Computer skills

**Operating Systems**  
GNU/Linux, macOS, Windows

**Programming**  
*Advanced:* Python, UML  
*Intermediate:* Matlab, Shell, Java  
*Bases:* C, SQL, PostgreSQL, HTML, CSS, XML,  
JavaScript, jQuery, PHP, J2EE

**Reporting**  
LaTeX, G Suite, Libre/Open/Microsoft® Office

## Soft skills

**Work assets**  
Proactive, rigorous, curious

**Relational assets**  
Accountable, collaborative, straightforward

## Theoretical skills

**Machine learning and signal processing**  
Clustering, convex optimization, gradient descents,  
regularization, probabilistic models, SVM, random  
forests, dimensionality reduction, dictionary  
learning, neural networks

**Software engineering**  
Architectural styles and patterns, tools and methods  
for conception and analysis, front-end, back-end

## Interests

**Sports**  
Martial arts (6 years), handball (2 years), tennis (6  
years)

**Culture**  
*Scientific reading:* Healthcare, sport, human sciences  
*Travels:* Africa, Southern and Western Europe,  
Australia, Cuba, Japan

## Alexandre Huat



## Education

**MSc by Research Data Science and Engineering (dual degree)**

Since August 2017

University of Rouen Normandie, Rouen, France

- Data Science Track

**IT engineer's degree**

Since August 2012

INSA Rouen Normandie, Rouen, France

- Department of Information Systems Architectures
- Major in Data Engineering

**Baccalaureate of Sciences**

June 2012

French School Abroad Montaigne, Cotonou, Benin

- *Magna Cum Laude*
- Major in Earth and Life Sciences

## Work experience

**Research Intern**

Since February 2018

INRIA Lille Nord Europe, Lille, France

- Project-team MACHINE learning in information NETWORKS (MAGNET)
- Improvement of the robustness of a privacy-preserving algorithm for decentralized averaging in P2P networks. Robustness is to be provided against disconnections of users and malicious adversaries.

**Lead Python Developer @  
ISO9001:2015 Certified INSA  
Project**

From December 2016 to December 2017

Henri Becquerel Centre & INSA Rouen Normandie, Rouen, France

- *UNICANCER Innovation Award 2017: Management and Research Award*
- Conception and development of a Python GUI for the segmentation of cancer patients' CT scans.
- Automation of the process using deep and fully convolutional networks in Keras.

**R&D Data Scientist Intern**

From April 2017 to July 2017

Vekia, Lille, France

- Development of a Python 3 prototype for suspicious stocks detection with machine learning techniques.

**Production Workman Intern**

May 2013

Ressorts Masselin, Le Petit-Quevilly, France

- Cold springs rolling, grinding, shot peening, quality controlling and packaging.