

# Guillaume Rochette

Engineering Student in Applied Mathematics and  
Computer Science

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## Educational Background

- 2012-2017  
(expected) **National Institute of Applied Sciences of Rouen (INSA Rouen)**, *Rouen, France*,  
Diplôme d'ingénieur en Mathématiques Appliquées,  
English equivalent : Msc. in Applied Mathematics and Computer Science.  
Main themes :
  - Statistics, Machine Learning and Artificial Intelligence.
  - Scientific and Stochastic Calculus, and Numerical Methods.
  - Mathematical Programming and Operations Research.End of Studies' Project :
  - Deep Learning for Natural Language Processing applied to Bond and Stock Market.
- 2012 **Lycée Paul Langevin**, *Suresnes, France*,  
Baccalauréat Scientifique section Européenne Allemand mention Bien,  
English equivalent : A-Levels in Sciences and German with distinction.

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## Work experience

- April-October  
2017 **Thales Services**, *Toulouse, France*,  
End-of-course Internship - Prototyping of a Search Engine for Satellite Imagery.  
Creation of Deep Learning models adapted to High Resolution Satellite Imagery :
  - Automated Cartography and Building Detection, using Image Segmentation.
  - Similarity Search between Images using Deep Features.
- June-September  
2016 **BNP Paribas Personal Finance**, *Levallois-Perret, France*, Speciality Internship -  
Basel II Equity Calculator, Joint Venture with Commerz Finanz Group. Study of  
European Financial Regulation and Basel Accords (I and II), Knowledges in Risk  
Management and Project Management.
- June-September  
2015 **Université du Québec À Montréal (UQÀM)**, *Montréal, Québec, Canada*,  
Technical Internship in Data Mining & Association Rules Mining under the supervision  
of Pr. Petko Valtchev,  
Study and implementation of numerous algorithms & creation of a new algorithm for  
closed-pattern mining, Flake.
- July 2013 **PSA Peugeot-Citroën**, *Poissy, France*,  
Working on the assembly line for 208/C3/DS3 cars,  
Electronics and door systems check.  
Working in morning & afternoon shifts.
- March 2011 **Volksbank Goettingen**, *Göttingen, Niedersachsen, Germany*,  
Marketing and Web Design Department,  
Improvement of German Business & Finance oriented vocabulary.  
Greeting customers, organisation of conferences, basic learning of financial advising.
- December 2010 **Café Vierkötter**, *Rösrath, Nordrhein-Westfalen, Germany*,  
Bakery and pastry,  
Improvement of German everyday-life vocabulary, duration : 2 weeks.

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## Qualifications

Computer Science

Operating Systems	UNIX, Linux, Debian, Ubuntu, Windows.
Programming Languages	Python, C, C++, MatLab, R, SAS, SQL, Java, Fortran, Pascal, LaTeX, UML.
Machine Learning Frameworks	Caffe, TensorFlow, SciKit Learn, Pandas.

### Languages

English	<b>Fluent</b> , <i>Level B2/C1</i> , TOEIC Certificate 960/990.
German	<b>Fluent</b> , <i>Level B2/C1</i> , Graduated Deutsches Sprachdiplom Stufe II (DSD II), issued by Kultusministerkonferenz (KMK) in 2012.

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### Other competencies

Sport	<b>Handball</b> , <i>Regional League</i> , 5 years. <b>Climbing</b> , 2 years.
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