

# Quentin VIGNAUD

– M.Sc. computer science  
– Software-specialized computer systems engineer

Canadian resident  
EU citizen  
French national

## Portfolio

www.quentinvignaud.com

## Contact

This is public version of the document, please refer to: [linkedin.com/in/qvignaud](https://linkedin.com/in/qvignaud)

## Languages

Native french  
Fluent english  
Notions of german

## Technologies

C++, Qt, Rust, Linux, C, Git, Java, NodeJS, Python, MPI, OpenMP, Intel Thread Building Blocks, WebAssembly, WebGL, C#, SQL, JavaScript, L<sup>A</sup>T<sub>E</sub>X

## Interests

Running  
Hiking  
Music  
Electronic

## Miscellaneous

Driving license class 5  
Civil safety certificate  
Volunteer at CSGames 2019

## Professional experience

- Jan 2017 - Jun 2020 **Researcher & student** Montréal, Canada  
*Université du Québec à Montréal*
- Works in artificial intelligence and machine learning for detection of elements in audio data and musical information retrieval.
  - Demonstrator and teaching assistant for courses for graduate students in computer science.
- Jul 2019 - Nov 2019 **Research & development intern** Ottawa, Canada  
*Ciena*
- Design and development of analysis processes for structured, unstructured, or corrupted data.
  - Machine learning application for useful data retrieval.
- Feb 2015 - Dec 2016 **Founder, designer & developer** Saint-Nazaire, France  
*Self-employment / Freelance*
- Sep 2016 - Dec 2016 **Web development intern** London, United Kingdom  
*Joboundu*
- Design and development of platform for artists, models, producers and film makers.
  - Managements of payments following the PCI DSS (Payment Card Industry Data Security Standard).
- Feb 2016 - May 2016 **Research & development intern** Nantes, France  
*Keops Automation*
- Design and development of weather forecast data server, managing multiple sources (airports, Météo France, National Weather Service -USA-), to schedule automated industrial processes.
  - Parallel computing and sharing of forecasts for automated remote processes.
- 2014 - 2015 seasons **Club attendant** Préfailles, France  
*Club de Tennis des Amis de Préfailles*
- May 2015 - Jul 2015 **Web development intern** Saint-Nazaire, France  
*Éditions de France*
- Sep 2014 - Nov 2014 **Research & development intern** Nantes, France  
*Scanpoint Software*

## Education

- 2017 - 2020 **Master's degree in computer science** Montréal, Canada  
UQAM, Université du Québec à Montréal
- 2013 - 2018 **Software-specialized computer systems engineering degree** Saint-Nazaire, France  
CESI, Centre des Études Supérieures Industrielles

## Skills

**Entrepreneurial** Pedagogy, Project management, Software design, Documentation

**Practical and theoretical** Machine learning, Artificial intelligence, Signal analysis, Parallel computing, Databases, IT security

## Publications & Awards

*Détection et classification des notes d'une piste audio musicale*, Université du Québec à Montréal  
*L'ordinateur quantique et la sécurité de l'information*, Université du Québec à Montréal  
*Excellence Scholarships 2018 & 2019*, Faculté des sciences de l'Université du Québec à Montréal