

# Computer science student

Maxime Pinard

👤 22 years old  
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*Student in the final year of a computer science Master's degree program*

## Education and qualifications

### Université du Québec à Chicoutimi

Master in computer science

Currently in 3rd year, for a double degree with UTBM

### Université de Technologie de Belfort-Montbéliard

Computer science engineer diploma, imaging specialty, (eq. Master of Science)

3rd year done at UQAC for a double degree

### Université de Technologie de Belfort-Montbéliard

DEUTEC

Preparatory classes before the specialization

### Lycée Louis Aragon (high school)

Baccalauréat with major in maths, with honours

Saguenay, Quebec, Canada

2018

Belfort, France

2016

Sèvenans, France

2014

2016

Héricourt, France

2011

2014

## Languages

**French:** Native language

**Spanish:** Moderate level

**English:** B2 (BULATS 68), Professional working level

**Japanese:** Basic level

## Computer skills

**Languages:** C++, C, Java 8 (SE et EE),  $\LaTeX$ /TikZ, Python, Bash, CUDA, SQL, HTML/CSS, Assembly, VBA...

**Tools:** UML, git, Maven, CMake, Make, Regex

**System administration:** GNU/Linux (Debian 8), personal server for Java EE web hosting (Tomcat 8)

**Libraries:** boost, fmt, spdlog, OpenGL, Capstone, Keystone, Json, GTest, SFML, ImGui, GLFW, GLM, Inja, JavaFx, JUnit4

**IDE:** Visual Studio, JetBrains IntelliJ IDEA and CLion, Eclipse

## Work experiences

### Ambulances Phoenix, 2 months

Ambulance technician, Patient care and transportation

Héricourt, France

07/2018 - 08/2018

### Direction Générale de l'Armement Maîtrise de l'Information, 6 months

Intern, Development and testing of an internal disassembly module

Bruz, France

08/2017 - 01/2018

### JAB France, 1 week

Activities supervisor, Camp of 40 young people, team of 15 supervisor

Evolène, Switzerland

02/2016

### JAB France, 1 week

Activities supervisor, Camp of 50 young people, team of 20 supervisor

Contamines, France

02/2015

### Souchier SAS, 4 weeks

Intern, Installation of gaskets and assembly of smoke evacuation systems

Héricourt, France

01/2015

## Others qualifications

- French driving license
- PSC1, French first aid certification

## Projets

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### Personal.....

- o Music player [C++, ImGui, SFML, spdlog, libmpg123] *MagicPlayer*
- o Number base converter, example ImGui/SFML [C++, ImGui, SFML] *BaseConverter*
- o Console graphical library for Windows and Unix based systems [C] *ConsoleControl*
- o Dungeon crawler with procedural levels generation [Java, JavaFx] *Raoul-the-Game*
- o  $\LaTeX$ /TikZ implementation of the UTBM internship report covers *utbm-latex-internship-report-covers*
- o  $\LaTeX$ /TikZ Beamer implementation of the UTBM presentation theme *utbm-beamer-theme*

### Internship.....

- o Hex-Rays IDA collaborative reverse-engineering plugin [C++, GTest, IDA] *YaCo, Internship report (fr)*
- o Assembly / disassembly module for MIPS processors assembly code [C, Capstone, Keystone] *Internship report (fr)*

### School.....

- o Construction and render of a 3D parametric object with OpenGL [C++, GLFW, ImGui] *ParametricObjectsConstruction*
- o Hyperplanes calculator in dimension 4 finite geometries, (performance oriented) [C++] *HyperplaneFinder*
  - > *publication [1]*
- o MiniMetro clone: subway management simulator [Java, JavaFx] *MagicMetro*
- o Pogo game with MinMax/AlphaBeta AI [C++, ConsoleControl] *Pogo*
- o Multiplayer Snake like game (local network) [C++, SFML] *PapraGame*
- o Multi-users file storage server [C++, SFML]

## Publications

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[1] [Veldkamp Spaces of Low-Dimensional Ternary Segre Varieties](#), [[not yet published]] (2018)

*Metod Saniga, Jérôme Boulmier, Maxime Pinard, Frédéric Holweck*

## Interests

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**Computer science:** New programming paradigms, procedural generation, artificial intelligence, cryptography..., their implementation, and the evolution of quantum computing.

**Science:** Mathematics, physical system simulation, quantum physics...

**Sport:** Skiing and winter sports, cycling (mountain biking in a club for 3 years), mountain hiking