Computer science student
Maxime Pinard

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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   **Saguenay, Quebec, Canada**
Master in computer science   *2018*

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

Université de Technologie de Belfort-Montbéliard   **Belfort, France**
Computer science engineer diploma, imaging specialty, (eq. Master of Science)   *2016*

3rd year done at UQAC for a double degree

Université de Technologie de Belfort-Montbéliard   **Sèvenans, France**
DEUTEC   *2014*
                                                                              2016
Preparatory classes before the specialization

Lycée Louis Aragon (high school)   **Héricourt, France**
Baccalauréat with major in maths, with honours   *2011*
                                                                      2014

Languages

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

Spanish: Moderate level   **Japanese**: Basic level

Computer skills

Languages: C++, C, Java, LaTeX/TikZ, Python, Bash, CUDA, SQL, HTML/CSS, Assembly, VBA…

Tools: UML, git, CMake, Make, Maven, 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   **Héricourt, France**
Ambulance technician, Patient care and transportation
                                                              07/2018 - 08/2018

Direction Générale de l'Armement Maîtrise de l'Information, 6 months   **Bruz, France**
Intern
                                                              08/2017 - 01/2018
- o Work on GenDbg, a multi languages / OS / architecture debugger:
    Development and testing of a disassembly module for MIPS architectures
- o Work on YaCo, an IDA Pro plugin enabling collaborative reverse-engineering using Git:
    Ported to C++ and improved Git repository management and IDA events handling

JAB France, 1 week   **Evolène, Switzerland**
Activities supervisor, Camp of 40 young people, team of 15 supervisor
                                                                   02/2016

JAB France, 1 week   **Contamines, France**
Activities supervisor, Camp of 50 young people, team of 20 supervisor
                                                                   02/2015

Souchier SAS, 4 weeks   **Héricourt, France**
Intern, Installation of gaskets and assembly of smoke evacuation systems
                                                                   01/2015

Others qualifications

- French driving license
- PSC1, *French first aid certification*

Projects

Personal

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

Research

- Hyperplanes calculator in dimension 4 finite geometries, (performance oriented) [C++] — *HyperplaneFinder*
  - *> publication [1]*

Internship

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

School

- Construction and render of a 3D parametric object with OpenGL [C++, GLFW, ImGui] — *ParametricObjectsConstruction*
- MiniMetro clone: subway management simulator [Java, JavaFx] — *MagicMetro*
- Pogo game with MinMax/AlphaBeta AI [C++, ConsoleControl] — *Pogo*
- Multi-users file storage server [C++, SFML]

Publications

[1] Veldkamp Spaces of Low-Dimensional Ternary Segre Varieties, [[not yet published]] (2018)
Metod Saniga, Jérôme Boulmier, Maxime Pinard, Frédéric Holweck

Interests

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