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 and Docker web services hosting

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*
- Work on GenDbg, a multi languages / OS / architecture debugger:
  Development and testing of a disassembly module for MIPS architectures
- 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

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

Projects

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*
o Multiplayer Snake like game (local network) [C++, SFML]   *PapraGame*

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

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, GTest]   *Internship report (fr)*

School
o Construction and render of a 3D parametric object with OpenGL [C++, GLFW, ImGui]   *ParametricObjectsConstruction*
o MiniMetro clone: subway management simulator [Java, JavaFx]   *MagicMetro*
o Pogo game with MinMax/AlphaBeta AI [C++, ConsoleControl]   *Pogo*
o 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