Computer science student

Maxime Pinard

23 years old

♦ Héricourt, France

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Student in the final year of a computer science Engineer and Master's degree program

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Université du Québec à Chicoutimi Saguenay, Quebec, Canada Master in computer science 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) 3rd year done at UQAC for a double degree Université de Technologie de Belfort-Montbéliard Sèvenans. France **DEUTEC** Preparatory classes before the specialization Lycée Louis Aragon (high school) Héricourt. France 2011 Baccalauréat with major in maths, with honours

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... **Methods/Tools**: Agile, Unit tests, Design patterns, UML, BPMN, git, CMake, Make, Maven, Regex

Metaheuristics: Tabu search, simulated annealing, genetic algorithms, ant colony optimization algorithms, PSO

Libraries: boost, fmt, spdlog, OpenGL, OpenCV, OpenMP, MPI, GTest, Catch2, Capstone, Keystone, Json, SFML, ImGui, GLFW, GLM, libmpg123, TagLib, JavaFx, JUnit4

System administration: GNU/Linux (Debian 8+), personal server for Java EE and Docker web services hosting

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

Publications

[1] J. Boulmier, F. Holweck, M. Pinard, and M. Saniga, "Veldkamp spaces of low-dimensional ternary segre varieties," *Results in Mathematics*, vol. 74, no. 1, p. 54, Feb. 2019, ISSN: 1420-9012. DOI: 10.1007/s00025-019-0974-2.

Others qualifications

- o French driving license
- o PSC1. French first aid certification

Work experiences

Ambulances Phoenix, 2 months Héricourt, France Ambulance technician, Patient care and transportation 07/2019 - 08/2019 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 in C of a disassembly module for MIPS architectures and the associated unit tests 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 Evolène, Switzerland JAB France, 1 week 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 **Projects** Personal Header-only dynamic bitset implementation [C++] dynamic_bitset Music player [C++, ImGui, SFML, spdlog, libmpg123] MagicPlayer o 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) 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] Parametric Objects Construction o MiniMetro clone: subway management simulator [Java, JavaFx] MagicMetro Pogo game with MinMax/AlphaBeta Al [C++, ConsoleControl] Pogo Multi-users file storage server [C++, SFML]

Interests

Computer science: New programming paradigms, procedural generation, operational research, software optimization, cryptography 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.