Computer science student

Intern, Installation of gaskets and assembly of smoke evacuation systems

Maxime Pinard

■ 23 years old

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01/2015

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

Education and multipleations				
Education and qualifications				
Université du Québec à Chicoutimi Master in computer science		Saguenay, Quebec, Canada 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. Mas	ma, imaging specialty, (eq. Master of Science)			
3rd year done at UQAC for a double degree Université de Technologie de Belfort-Montbéliard DEUTEC				
		Sèvenans, France		
Preparatory classes before the specialization		2010		
Lycée Louis Aragon (high school)	2011	Héricourt, France		
Baccalauréat with major in maths, with honours		2014		
Languages				
French: Native language	English: B2 (BULATS 68), Professional working level			
Spanish: Moderate level	Japanese: Basic level			
Computer skills				
Metaheuristics: Tabu search, simulated annealing, genetic algo Libraries: boost, fmt, spdlog, OpenGL, OpenCV, OpenMP, MPI libmpg123, TagLib, JavaFx, JUnit4 System administration: GNU/Linux (Debian 8+), personal ser IDE: Visual Studio, JetBrains IntelliJ IDEA and CLion, Eclipse	, GTest, Catch2, Capstone, Keystone, Jso	n, SFML, ImGui, GLFW, GLM		
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'Informatio	on, 6 months	Bruz, France		
 Work on GenDbg, a multi languages / OS / architecture debu 	løger.	08/2017 - 01/2018		
Development in C of a disassembly module for MIPS archite Work on YaCo, an IDA Pro plugin enabling collaborative reve Ported to C++ and improved Git repository management as	ectures and the associated unit tests rse-engineering using Git:			
JAB France, 1 week		Evolène, Switzerland		
Activities supervisor, Camp of 40 young people, team of 15 super	ervisor	1		
JAB France, 1 week		02/2016 Contamines, France		
Activities supervisor, Camp of 50 young people, team of 20 super	ervisor			
Souchier SAS, 4 weeks		02/2015 Héricourt, France		

Others qualifications

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

Projects

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- Header-only dynamic bitset implementation [C++]
- Music player [C++, ImGui, SFML, spdlog, libmpg123]
- o Number base converter, example ImGui/SFML [C++, ImGui, SFML]
- Console graphical library for Windows and Unix based systems [C]
- o Dungeon crawler with procedural levels generation [Java, JavaFx]
- LATEX/TikZ implementation of the UTBM internship report covers
- LATEX/TikZ Beamer implementation of the UTBM presentation theme
- Multiplayer Snake like game (local network) [C++, SFML]

o Hyperplanes calculator in dimension 4 finite geometries, (performance oriented) [C++]

> publication [1]

- Assembly / disassembly module for MIPS processors assembly code [C, Capstone, Keystone, GTest]
- School...
- o Construction and render of a 3D parametric object with OpenGL [C++, GLFW, ImGui]
- o MiniMetro clone: subway management simulator [Java, JavaFx]
- Pogo game with MinMax/AlphaBeta Al [C++, ConsoleControl]
- Multi-users file storage server [C++, SFML]

dynamic_bitset

MagicPlayer

BaseConverter

ConsoleControl

Raoul-the-Game

utbm-latex-internship-report-covers

utbm-beamer-theme

HyperplaneFinder

PapraGame

Internship

Hex-Rays IDA collaborative reverse-engineering plugin [C++, GTest, IDA]

YaCo, Internship report (fr)

Internship report (fr)

ParametricObjectsConstruction

MagicMetro

Pogo

Publications

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.

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.