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 qualifications					
Education and qualifications					
Université du Québec à Chicoutimi Master in computer science	Saguenay, Queb	ec, Canada 2018			
Currently in 3rd year, for a double degree with UTBM	rd year, for a double degree with UTBM				
Université de Technologie de Belfort-Montbéliard	Belf	ort, France			
Computer science engineer diploma, imaging specialty, (eq. Mast	201	2016			
3rd year done at UQAC for a double degree	,				
Université de Technologie de Belfort-Montbéliard DEUTEC	Sèven:	ans, France			
Preparatory classes before the specialization	2010				
Lycée Louis Aragon (high school)		urt, France			
Baccalauréat with major in maths, with honours	<u>2011</u> 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 algorithms boost, fmt, spdlog, OpenGL, OpenCV, OpenMP, MPI, libmpg123, JavaFx, JUnit4 System administration: GNU/Linux (Debian 8), personal server IDE: Visual Studio, JetBrains IntelliJ IDEA and CLion, Eclipse	GTest, Catch2, Capstone, Keystone, Json, SFML, ImGui, C	ilfw, GLM,			
Work experiences					
Ambulances Phoenix, 2 months Ambulance technician, Patient care and transportation	Hérico	urt, France			
Direction Générale de l'Armement Maîtrise de l'Information		/2018 - 08/2018 ruz, France			
Intern		' - 01/2018			
 Work on GenDbg, a multi languages / OS / architecture debug Development in C of a disassembly module for MIPS architecture. Work on YaCo, an IDA Pro plugin enabling collaborative reverses. Ported to C++ and improved Git repository management and 	gger: ctures and the associated unit tests se-engineering using Git:	, , , ,			
JAB France, 1 week	Evolène, S	Switzerland			
Activities supervisor, Camp of 40 young people, team of 15 super	visor				
JAB France, 1 week	02/2016 Contami	nes, France			
Activities supervisor, Camp of 50 young people, team of 20 super	visor				
Souchier SAS, 4 weeks	02/2015 Hérico	urt Eranca			

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.