Computer science student

Intern, Installation of gaskets and assembly of smoke evacuation systems

Maxime Pinard

■ 22 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			
Université du Québec à Chicoutimi	Saguenay, Quebec, Canada		
Master in computer science		2010	
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. Ma	aster of Science)		
3rd year done at UQAC for a double degree		S 5	
Université de Technologie de Belfort-Montbéliard DEUTEC	Sèvenans, France		
Preparatory classes before the specialization		2016	
Lycée Louis Aragon (high school)		Héricourt, France	
Baccalauréat with major in maths, with honours		2011 Hericourt, France	
Languages		2014	
French: Native language	Fnølish: B2 (BULATS 6	8), Professional working level	
Spanish: Moderate level Japanese: Basic leve		o), i roressionar working lever	
Spainsii. Moderate level	Japanese. Dasic level		
Computer skills			
Metaheuristics: Tabu search, simulated annealing, genetic alg Libraries: boost, fmt, spdlog, OpenGL, OpenCV, OpenMP, MP libmpg123, JavaFx, JUnit4 System administration: GNU/Linux (Debian 8), personal serv IDE: Visual Studio, JetBrains IntelliJ IDEA and CLion, Eclipse	PI, GTest, Catch2, Capstone, K	Keystone, Json, SFML, ImGui, GLFW, GLM	
Work experiences			
Ambulances Phoenix, 2 months		Héricourt, France	
Ambulance technician, Patient care and transportation		07/2018 - 08/201	
Direction Générale de l'Armement Maîtrise de l'Informati	ion, 6 months	Bruz, France	
 Work on GenDbg, a multi languages / OS / architecture del 	hugger:	08/2017 - 01/2018	
Development in C of a disassembly module for MIPS archi • Work on YaCo, an IDA Pro plugin enabling collaborative rev Ported to C++ and improved Git repository management	itectures and the associated ur verse-engineering using Git:	nit tests	
JAB France, 1 week	-	Evolène, Switzerland	
Activities supervisor, Camp of 40 young people, team of 15 sup	pervisor		
JAB France, 1 week		02/2016	
Activities supervisor, Camp of 50 young people, team of 20 sup	nervisor	Contamines, France	
	50, 1,501	02/2015	
Souchier SAS, 4 weeks		Héricourt, France	

Others qualifications

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

Projects

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- o Music player [C++, ImGui, SFML, spdlog, libmpg123]
- Number base converter, example ImGui/SFML [C++, ImGui, SFML]
- o Console graphical library for Windows and Unix based systems [C]
- 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]

Research

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

> publication [1]

Internship

- o Hex-Rays IDA collaborative reverse-engineering plugin [C++, GTest, IDA]
- o 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 Pogo game with MinMax/AlphaBeta AI [C++, ConsoleControl]
- Multi-users file storage server [C++, SFML]

o MiniMetro clone: subway management simulator [Java, JavaFx]

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, 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.

MagicPlayer

BaseConverter

ConsoleControl

Raoul-the-Game

utbm-latex-internship-report-covers

utbm-beamer-theme

PapraGame

HyperplaneFinder

Internship report (fr)

YaCo. Internship report (fr)

ParametricObjectsConstruction

MagicMetro

Pogo