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22 years old
TOEIC: 975

MSc Student High Performance Computing

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EDUCATION

2012-2013	• MSc in High Performance Computing (MIHP) at École Centrale de Paris and University of Versailles
	Saint-Quentin-en-Yvelines.
2007-2012	 Graduated from EPITA, French School of Computer Science and Advanced Technologies.
	Scientific computing and Image Processing major.
	Student-Researcher at the EPITA Research and Development Laboratory (LRDE).
2007	• Baccalauréat in Science, English intensive, with honours.

INTERNSHIPS

febjuly 2012	• Internship at the LURPA laboratory of ENS Cachan. Development of an high performance machining simulation using C++, CUDA and OpenMP.
	Visualization of results in 3D with OpenGL.
septjan. 2011	• Internship at AKAtech S.A. a computer vision company located in Switzerland.
	Contributions to the European research project ACTORS (Adaptivity and Control of Resources
	in Embedded Systems). Development of a JPEG codec in the CAL dataflow language and
	improvement of the IDE.
june-july 2009	 Internship at the LRDE, working on Spot, a Model Checking library written in C++.
	Research on Büchi automata for distributed computation of emptiness check.

PROJECTS

2012	Taken industry and an example limiting and CCE constanting of a superior inclusion and a superior library
2012	• reclinical report on parahelization and 55E vectorization of a generic image processing norary.
	• GCC pass performing static analysis and dynamic instrumentation.
	 Optimized linear algebra library for dense and sparse matrices using CUDA and MPI.
2011	• Technical report on introducing parallelism in an educational compiler project and on the
	optimization of its register allocation pass.
	 Fast spell checker using a trie and the Damerau-Levenshtein distance.
	 Efficient Binary Decision Diagrams (BDD) library for model checking.
	 Detection and decoding of EAN barcodes in natural images.
2010	• Implementation of Transition-Based Generalized Büchi Automata (TGBA) minimization.
2009	• Development of a SUSv4 compliant shell.
	• Fast calculator for arbitrary long numbers.
2008-2009	• Project for automatic recognition of sheet music. Statistical classification using neural networks.
2007-2008	• Real time strategy game with OpenGL developed within the Fooo Team (fooo.fr).

TECHNICAL SKILLS

Tools :• CUDA, OpenMP, MPI, TBB, SSE, OpenGL, OpenCV, Flex, Bison, Latex, ILOG CPLEX, Git, SVN.Languages :• C++, C, Java, Python (Numpy), Pascal (Delphi), ARM Assembly, Matlab, OCaml, Shell Script.Other :• Software Methodologies, Testing, Design Patterns, Distributed Algorithms, Numerical Stability.