Lornac Mathieu

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Work Experience

02/13 -	**Orange - Ausy Consultant**, *Profile and Syndication department*, Sophia Antipolis. Technical Environment:PHP, C++, Ruby, CVS, Git, Chef
08/12 - 01/13	**Spot Image - Ausy Consultant**, *Improvement of geo-production editors*, Sophia Antipolis. Technical Environment:C++, Qt, Boost, SVN/Git
02/12 - 07/12	**DoremiLabs**, Sophia Antipolis, Improvement of a live streaming solution for cinema shows, satellite stream reception support. Technical Environment: C/C++ CVS, Debian3, x86
09/11 - 02/12	**MargOconseil**, *Development of a code generation and language interoperability framework*, Paris, Technical design, realisation. Technical Environment: Ruby, C++, Mercurial
08/10 - 08/11	**Ensuite Informatique**, *Development of situational analysis processors*, Paris, Technical design, realisation. Technical Environment: C++, QtCore, Flex/Bison, CMake, Git

Free software contributions

YACassandraPDO	**PHP Data Object driver for the cassandra database system**, *Support of CQL3 features, bugfixes, performance and stability improvements*. https://github.com/Orange-OpenSource/YACassandraPDO
Okular	**KDE's Universal Document Viewer**, *Bug fixing*, small implementations.
KDev-Valgrind	**Integration of the Valgrind tools in KDevelop**, *Project Maintainer*. https://projects.kde.org/projects/playground/devtools/plugins/kdev-valgrind

Education

2012	**Epitech**, *Master of Science in Information Technology*, Paris, France. Major: Computer Programming
Summer 2008	**Alliant International University**, *San Diego CA, USA*. English Class with EF Education
2004 - 2006	**Two Year Technical Degree**, *Lycee Suzanne Valadon*, Limoges, Diploma BTS. Major: Information Technology
2003–2004	**MIAS (Mathématics and IT applied to sciences)**, Science faculty of Limoges.

Computer Skills

Imperative	C, Ada
Object Oriented	C++, Ruby, PHP, Python
Knowledge	LaTeX, bash, CMake, Java, RoR, Flex/Bison

Languages

French	**Mother tongue**	
English	**Good level**	*both written and oral*

Interests and Activities

Project Euler	I participate to this challenge which allies algorithmic and mathematics `http://projecteuler.net`
Sports	Mountain biking, Ultimate frisbee, Basketball

Work Experience Details

02/13 - , Orange **Profile and Syndication**.

- Development of a request duplication Apache module.
  Duplication of requests that matches defined criterias. The target is here to feed both the former and the new database systems in order to ensure no regression has been introduced by the lastest release.

  Filtering on HTTP requests, based on RegExp. Body and/or header analysis

  Request modification before duplication

  Performance sensitivity (more than 1000 requests/s)

- Evolution of a PHP Data Object driver for the cassandra database system

  BugFixing on types convertion

  Support of complex types (collections)

  Persistent connections support

08/12 - 01/13, SpotImage **Cartographie**, *Conception Implémentation*.
The Pixel Factory is a complete suite that produces geoagraphical images.

- Maintenance and implemantation of new features on graphical editors that gives the opportunity to fix algorithms glitches

  Abstraction of the filter's base geometry

  Adaptation to a large and complex source code

  Realisation of a new filter type

DoremiLabs **Digital Cinema solutions**, *Improvement of the live streaming platform*.

- Integration of a DVBS-receiver card (Satellite)
- Transport Stream content analyse (Program list, languages, subtitles...)
- Transformation of the streaming platform from a single stream capacity to a multi client multi-stream system

MargOconseil **Financial consulting, R&D team**, *Conception Implementation*.
Development of a re-engineering and code generation framework.
"'CodeCase"' is an innovative solution that facilitates the

- Model driven development
- C++ code generation from the description of a model in Ruby
- Compile time object converter between Ruby and C++ (Introspection techniques developped by Alexandrescu)

MargOconseil **Financial consulting, R&D team**, *Conception Implementation*.
Development of a re-engineering and code generation framework called CodeCase

- Model driven, Test driven, Aspect oriented development using Agile methodology
- Compile time object converter between Ruby and C++ (Introspection techniques developped by Alexandrescu)
- C++ Ruby AspectJ language interoperability

Ensuite-Info **Company specialized in situational analysis**, *Conception Implementation*.

- Development of the processor core, realization of 2 languages parsers using flex/bison, network communications, XML parsers, database abstraction, task scheduler
- Unary tests