

Laurent Sansonetti

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Address and phone number available on demand

Summary

Versatile and experienced software engineer.

Can work on both low and high-level concepts, as part of a team or separate, on-site or remotely, on proprietary or opensource projects.

Able to delegate work, and cope with stress and short deadlines.

Born on February 19, 1981. Belgian citizen. Married. Owns a driving license (European category B).

Employment

Senior Software Engineer, Apple

Cupertino, California, USA. January 2006 – Present

Software engineering for the Core OS department. Working on Mac OS X since version 10.5.

Created and lead the MacRuby project, an implementation of the Ruby language on top of core Mac OS X technologies, such as the Objective-C runtime, garbage collector, the CoreFoundation and ICU frameworks and the LLVM compiler.

Designed and implemented BridgeSupport, a project that provides metadata information covering the system APIs to non-C languages, such as Ruby, Python and others.

Rewrote most of the RubyCocoa project, a bridge between the Ruby and Objective-C runtimes, to make it faster, more stable and maintainable.

Created the RubyOSA project, which allows the Ruby runtime to access the AppleEvent infrastructure, in order to script Mac OS X applications in the same way AppleScript does.

Improved and maintained the Mac OS X Ruby stack.

Worked with various teams to improve scripting languages in developer tools: Interface Builder, Xcode, DTrace/Instruments, documentation.

Presented the projects above at numerous opensource conferences.

Application Software Engineer, Apple

Paris, France. November 2004 – January 2006

Software engineering for the Applications department. Cocoa programming on both the backend and user interface of an iLife application. Details are covered by a confidentiality agreement.

Contracted Software Engineer, Alcatel

Namur, Belgium. January 2004 – November 2004

Development of an intelligent network (IN) service for British Telecom, to regulate both incoming and outgoing calls.

Remote installation of the software at BT labs. Wrote test units and documentation.

Software Developer, DataRescue

Liège, Belgium. February 2002 – November 2003

Designed and implemented the Mac OS X version of PhotoRescue Wizard, a digital image and data recovery software.

Created several processor disassembler modules for IDA Pro, an interactive disassembler and debugger widely used for reverse-engineering.

Implemented and deployed a web-based system to provide software updates to customers in a very secure way.

Maintained BSD and GNU/Linux servers.

Completed my bachelor final-year project : *Design and Implementation of an Improved Host Intrusion Detection System within the FreeBSD kernel.*

Free Software

Wrote, maintained and contributed to several free software projects in the past: GNOME database libraries, Ruby bindings for many C libraries, Alexandria (a book collection manager for GNOME) and more.

Member of the Free Software Foundation since 2003. Former member of the GNOME Foundation.

Education

Bachelor of Computer Sciences

Haute Ecole Rennequin Sualem, Liège, Belgium, 2000 – 2002

Specialized in Industrial Computer Sciences. Received with honors including *Prix de la fondation André Gilles* rewarding one of the best final-year projects.

Skills

Specialist in: C, C++, Objective-C, Ruby, Cocoa, Mac OS X, programming language design, implementation and bridging, performance optimizations, concurrent programming, user interfaces.

Experience with: LISP (Scheme), Perl, Java, web development, database design and integration, kernel development (BSD), reverse engineering, UNIX administration.

Spoken languages: French (native), English (fluent), Japanese (notions).

Hobbies

Hacking computers, science-fiction books and movies, classical piano, Japanese animation, traveling, fine cuisine and beverages.

References

Available on demand.

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<http://chopine.be/resume.pdf>