

Alex Marandon

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Experience

- **Since July 2009, Freelance Python and Ruby Developer**

Consulting and development for Artlogic Media and Large Blue

Please see <http://alexmarandon.com/> for more information.

- **February 2008 - June 2009, Python Developer**

Artlogic Media Ltd., London, England, UK

Web application development

- Maintained and developed a content management system and websites based on Pylons (Python-based MVC framework), MySQL and JavaScript.
- Provided other team members with advice and training on software development, Python, Unix and source code management.
- Designed and developed a C module embedding Python within an existing application server and allowing rapid development of high performance features.
- Maintained and extended a PHP-based on-line store.
- Deployed projects on Debian GNU/Linux and Mac OS X servers.

- **November 2007 - January 2008, Ruby on Rails Developer**

Claranet Ltd., London, England, UK

Enterprise web application development

Worked in team on developing a shop, billing system and back office application based on Ruby on Rails and MySQL. Applied agile practices such as test-driven development and pair programming.

- **December 2006 - May 2007, Java and Ruby on Rails Developer**

E-Xact Transactions Ltd., Vancouver, BC, Canada

Software development for a payment processing provider

- Worked in team on developing a Ruby on Rails application used by thousands of merchants across Northern America.
- Developed a Java applet driving physical PIN pads devices through serial lines from a web browser. Integrated this solution within a Ruby on Rails application processing credit card transaction.
- Mentored a senior Delphi developer on Ruby and Mac OS X environment through pair programming of a batch processing utility.
- Brought Unix and open source expertise to team members in a context of transition to open-source technologies.

- **October - December 2006, Java Developer**

Recombo Inc., Vancouver, BC, Canada

Software development for a digital signature application

Worked in team on debugging and extending a web application based on Java Servlets, JSP, MySQL and AJAX.

- **December 2004 - December 2005, Java and Python Developer**

Paratronic Ltd., Labège-Innopole, Midi-Pyrénées, France

Software development for river monitoring sections

- Developed Python-based server-side modules for transfers, format conversion (binary to XML) and sample rate conversions of hydrological data.
 - Maintained and developed a Java Swing front and a PostgreSQL database.
 - Deployed all developed software on Debian GNU/Linux servers and Microsoft Windows clients within river monitoring sections covering a broad part of Southwestern France.
- **December 2002 - July 2004, Perl and Python Developer**
 CLARISYS Informatique, Bruguères, Midi-Pyrénées, France
 Software development for medical analysis laboratories
 - Developed a Perl and PostgreSQL-based system for managing encrypted emails and faxes transmitting medical data. Developed a web front-end based on mod_perl. Interfaced with legacy software running on AIX systems. Product officially validated by an association of health care professionals and deployed on FreeBSD and OpenBSD servers in multiple laboratories in Northern France.
 - Supervised trainees in prototyping a report editing system based on XSLT and wxPython GUI toolkit.
 - Analyzed customer needs and designed a crucial PostgreSQL database.
 - Developed user session management module for an application server based on Python and CORBA, following requirements defined with team.

Education

- 2002 to 2006
 National academy of arts and trades (CNAM), Toulouse, Midi-Pyrénées, France
 Bachelor's of Computer Technology, Evening classes
 In this context, developed a free real-time audio application using C++ language, Qt cross-platform framework and GNU development tools.
- 2002
 National academy of arts and trades, Toulouse, Midi-Pyrénées, France
 Inter/intranet developer training
- 1997 to 1999
 University of Toulouse Le Mirail, Toulouse, Midi-Pyrénées, France
 Bachelor's of Sociology

Skills

- Fluent in Perl, Python and Ruby scripting languages.
- C and C++ programming with the GNU toolchain.
- Java programming with Ant and JUnit.
- Web technologies: MVC frameworks (Pylons, Ruby on Rails, Google App Engine), JavaScript, AJAX, HTML, CSS, XML, DOM, RSS/Atom, Apache HTTP Server, Java Applets and Servlets, CGI, etc.
- Graphical user interfaces: Qt, Java JFC/Swing, wxWidgets.
- Database modeling, SQL language, PostgreSQL and MySQL deployment and administration, ORM technologies.

- Threads programming.
- Source code management with CVS, Subversion and Git.
- Automated testing and test-driven development.
- Operating systems: GNU/Linux (Debian, Slackware, Ubuntu), FreeBSD, NetBSD, OpenBSD, Mac OS X, Microsoft Windows.
- Comfortable with working on remote machines using SSH and traditional Unix text-based tools.
- Basic TCP/IP administration, firewalling, deployment and administration of local services such as DNS, SMTP, file sharing, etc.
- Digital audio processing and programming, MIDI.
- Bilingual: English and French. Basic knowledge of Japanese.