

# Mario Ruggier - Curriculum Vitae

## INTERNET APPLICATIONS & INFORMATION ARCHITECTURE

### *Personal Details*

Name Mario Ruggier  
Address 183 rue Vieux Bourg, F-01170 Ségny  
Email mario at ruggier.org  
Web <http://ruggier.org/>  
Telephone +33 (0)4 50 41 96 14  
Nationalities Canadian, Maltese  
Languages English, French, Italian, Maltese

### *Summary*

Over 14 years of IT experience encompassing skills necessary to conceive and build multi-tier Internet Applications from front to back, plus other skills that include: Information Architecture; Documentation Engineering; Software Design and Development; User Driven Design; Monitoring of Technology Trends; Technical Support; Teaching and Writing.

### *Computer Skills*

- Web interface/client programming with HTML/XHTML, CSS, JavaScript and libraries such as MochiKit, Flash and ActionScript.
- Web server programming with Python, Perl, Java, JavaScript, XML, XSLT, ASP, JSP and Java Servlets, on various web (IIS, Apache) and application servers;
- Programming experience with Python, Perl, Java, C/C++, Fortran, Awk, Lisp, Pascal, SQL on Solaris, Linux, Windows, and OS X environments.
- Software Configuration Management using CVS, Subversion and Clearcase version control systems. Project Management with Trac.
- Database experience with MySQL, PostgreSQL, MS SQL 2000 relational database servers, as well as Python Object-Oriented databases.
- Analysis and design with ERD and UML. Software engineering experience with various methodologies, ranging from Extreme Programming and test-driven design, to the more formal PSS-05 standards from ESA.
- Document template design, Simultaneous publishing, from a single source to multiple formats; Expert knowledge of the Adobe FrameMaker technical publishing system.

### *People Skills*

Mediation of ideas between users, developers and management. Listening to different points of views. Syndication of a project's requirements from the various concerned parties. Integrate into a disparate group easily, and tend to get along very well with everyone. Affinity for attention and detail, and for recognizing contributions from others. Imaginative, visual, logical.

### *2003-2007 Independent Internet Applications Consultant*

Working privately since 2003, building web applications using primarily OSS (Open Source Software) technologies. Projects include: a database driven web application for dynamic analysis of historical sports data; a fund management system with a web interface supporting multiple user accounts and multiple investments; an extranet application allowing simple management and sharing of documents; deployment (linux/debian) of an open-source ERP (Enterprise Resource Planning) for a medium-sized company, covering purchasing and inventory management.

## *2001–2003 SoftPlumbers SA - Web Interface Architecture, Management and Development*

Web architect for Softplumbers SA, a 25 person start-up created in Dec 2000, that develops a standards-based distributed application for management of IT infrastructures, with a full web interface, and XML-based communication. My responsibilities included: (a) participation in the design of the user interface, (b) define an implementation architecture, (c) identify and specify components and support libraries, and interaction between them, both client-side and server-side, (d) manage/execute the implementation. Main technologies used are DHTML, CSS, JavaScript, Flash and ActionScript, Python, XML, XSL, IIS, ASP, SQL Server 2000, CIM Operations, Clearcase, Together.

## *1993–2000 European Laboratory for Particle Physics (CERN)*

### ▪ Analysis, Design & Implementation

2000 YaPPI, Yet another Particle Property Interface. An XML/Java particle database.

1999-2000 OverSite, tool to implement and maintain a web site architecture, for Dreamweaver.

1995 Electronic customer mail management support system, based on mh mail.

1994 Various early Web-related projects: WebLinker, a management tool for WWW cross references; WebMaker, a generic FrameMaker to WWW translator; Configuration of the Grif SGML editor for structured Web/HTML editing.

1993–1995 Documentation systems, with automatic multiple formats from single-source.

1993 Port of the unix-based ADAMO System to Windows.

### ▪ Information Design

1999-2000 OverSite Look&Feels, templates for technical web sites.

1997 Design of the WWW interface to LIGHT/OO, a seamless WWW hypertext of project source code ( C++, Java) and documents.

1996 Design of a suite of posters for the ATLAS high-energy physics experiment collaboration.

1995-1999 FrameMaker template packages: Software Documentation, User Guide, Technical Design Report, PSS-05 Software Engineering Standards. Each template package supports multi-authoring, and automatic conversion to WWW.

1993 An exploratory pilot hypertext issue of the Electronic Journal of Physics, from sources that included TeX, Mathematica and FrameMaker.

### ▪ Documentation

1996 Specification of the ATLAS Software Development Environment.

1994-1999 Design, authoring, management of Web Sites, for OverSite, WebMaker, IPT, CERN School of Computing for 1995, 1996, 1997, 1998.

1993-2000 User Documentation, e.g. for WebMaker (100 pages) and the ADAMO (240 pages).

### ▪ Teaching & Technical Support

1995-2000 Training and first-line support for FrameMaker and WebMaker.

1995 Comprehensive introductory course (4 lectures, May 2-5) on the World-Wide Web, for physics students at the University of Bologna.

## *Earlier Experience*

- 1989-1992 Teaching Assistant, Simon Fraser University, Vancouver, Canada.
- 1985-1986 Student Work Term (Dbase/SQL), Air Traffic Services, Transport Canada.

## *Education*

- B.Sc. (Mathematics), 1988. Simon Fraser University, Vancouver, Canada.
- B.A. (Performing Arts), 1991. Simon Fraser University, Vancouver, Canada.

## *Other Activities*

President of the CERN FC, an amateur football club with more than 200 members (resigned in 2000, due to leaving CERN). • Active football referee of the Fédération Française de Football since 1999, for the District de la Haute-Savoie. • Run my first marathon in March 2001 in Rome, and to this day I have run a total of 17.