

# Alvaro Saurin

Computer Scientist (BSc, MSc)

## Experience

### [5/2009 - ...] Technological Specialist, Telefonica R&D, Barcelona (Spain)

Technological Specialist in the Research Team (Internet Group), working on technology transfer for projects born in Telefonica R&D: CDNs with streaming, using Dynamic Load-Balancing DNS, P2P, low-level sockets: C++, PowerDNS, sockets & libevent, Python (eventlet, matplotlib)

### [2/2007 - 1/2009] Software Engineer, Zattoo Inc., Ann Arbor, MI (USA)

Design and implementation of new technologies in the core networking group of Zattoo, a live, real-time, P2P IPTV system. *C, RTP, P2P, sockets, libevent, forward error correction (FEC), streaming, H.264, codecs, MARC/TFRC, SNMP, Jira...*

### [6/2006 - 9/2006] Developer, Google "Summer of Code "

Grant funded job for the implementation of the Jingle audio transmission extension to Jabber/XMPP: *Java, Objective-C, RTP/TCPI/UDP, codecs, QuickTime, Mac...*

### [12/2004 - 6/2006] Developer/Researcher, University of Glasgow (UK)

*MSc by research* (funded by *Microsoft* and *NSF*) for the implementation of congestion control techniques (*TFRC*) for a videoconferencing application (*UltraGrid*): *C, networking (RTP/TCPI/UDP), video codecs, real-time media, Linux/Mac/FreeBSD* development...

### [7/1999 - 7/2000] Developer, University of A Coruna (Spain)

Development of the research accountancy infrastructure in the Research Results Transfer Office of the University: *Delphi, SQL* and *Java* programming, web page design, database administration (on *Digital Unix*) and programming (*Informix*)...

### [2/1999 - 9/1999] Linux Administrator, University of A Coruna (Spain)

Collaboration in administration and development of the Spanish mirror of the Linux kernel ([www.es.kernel.org](http://www.es.kernel.org)). *NAT, firewalling, MTA, DNS...*

Perez Galdos 10, 1-2  
08012 Barcelona (Spain)  
T (34) 65.11.88.380  
alvaro.saurin@gmail.com  
www: inercia.selfip.net  
skype: asaurin (videoconf avail.)

## Education

### [6/2001] Bachelor's Degree, University of A Coruna (Spain)

2.1 degree in Computer Science. Studies focused on software engineering and object-oriented methodologies. Best Final Project Award, with the project on "TCP/IP performance optimization using Genetic Algorithms".

### [6/2002] Specialization Degree, University of Madrid, UPM (Spain)

Specialization course (240 hours) on Internet technologies and development (Java programming, HTML, JSP/Servlets, XML...)

Short courses: "Web Design" (40h), "Computer Science Legislation" (20h) and more...

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## Skills

- Languages

Spanish: Native

English: Fluent (Certificates: IELTS Score 7.5)

Portuguese: Beginner

- Computers

... as a developer: C (*expert*), Python (*expert*) (*Twisted*, *Nevow*, *matplotlib*, *Django*) , C++, ObjC, OCaml, AWK, Java... networking (*DNS/RTP/TCP/UDP/IP*, *sockets/libevent*) , multimedia programming (*codecs*, *QuickTime*), *bazaar/svn*, *Eclipse*, *Hudson*, *Jira*...

... as a user/admin: *Linux/Mac OS X/Unix* (*expert*), networking (*expert*) (Firewalls, MTA, DNS...), databases (*MySQL*), Web Servers (*Apache*, *nginx*), *Zenoss*

## References

Pablo Rodriguez (Research Director at Telefonica R&D) [w](#)

Sugih Jamin (former CTO, Zattoo Inc / Asc. Professor, Uni. of Michigan) [@](#)

Dug Song (Vice President of Eng., Zattoo Inc) [@](#)

Colin Perkins (MSc supervisor, Uni. of Glasgow) [@](#)