

# Ludovic Fauvet

Software Engineer

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29 years old – 7th may 1985



*“The function of good software is to make the complex appear to be simple.” – Grady Booch*

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## Education

- 2005–2010 **Master in Computer Science**, *EPITECH*, Paris, France.  
EPITECH is a famous engineering school focused on the practice of projects and with a strong background of low level programming and Unix-like systems.
- 2004–2005 **French High-School Diploma in Computer Science**, *Lycée Charles Pointet*, Thann, France.  
Graduated with honors.

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## Professional Experience

### Software IPTV industry

- Since Oct. **Co-Founder & CTO**, *Videolabs*, Paris, France.
- 2012
- Supervising the research & development of a video recommendation system including video fingerprinting and the creation of a global movie and tv-show directory.
  - Main developer of mirrorbits, an open-source geographic load-balancer for managing binary file distribution across hundreds of mirrors (now used in production at VideoLAN).
  - Managing the whole VLC distribution infrastructure supporting more than 1 million downloads each day from all over the world.
  - Research and development of an innovative solution for broadcasting video on remote displays (TV, tablets) currently in use by unreleased versions of VLC and VLC for Android.
  - Added support for gestures on the desktop version of VLC and various improvements in the web-browser plugins.
- Mar. **Core Developer**, *Fair Play Interactive*, Paris, France.
- 2009–Sept. 2012
- Conception, design and development of a platform for building Personalized/Unicast TV channels running on set-top boxes as well as over-the-top.
  - Setup and development of the associated cloud platform able to deploy and scale automatically without human intervention (running on top of Amazon AWS).

### IT Software industry

- Nov.–Feb. 2009 **Mobile Developer**, *ServAlliance*, Montlhéry, France.
- 2009
- Conception and development of a social network running exclusively on mobile devices (Symbian and Android), focused on the location of the participants and the points of interest within their surrounding area.

May–Oct. **Developer**, *Andolis LLC*, Paris, France.

- 2008 ○ Developed a cross-platform desktop application for streaming video over an efficient, tree-based and low latency, P2P protocol meant to reduce the costs for broadcasting content over the Internet.
- Developed few tools for testing and debugging the streaming algorithm.

### Hosting & Network industry

2006–2007 **Co-Founder and R&D Director**, *Tenactys Group*, Montlhéry, France.

- Setup of a new network (AS33805) and a dedicated room, containing 12 racks cabinets, for hosting servers inside the largest network-neutral data center in France.
- Setup of a VoIP platform connected to land lines (powered by Asterisk and OpenSER).
- Research and development of a fail tolerant, virtualized hosting platform split in two different data centers.
- Developed a desktop console in C# using IPMI for account.fr customers in order to manage and get real-time statistics about their dedicated servers.
- Various other software developments in C/C++, C# and PHP.

2003–2005 **Network Operator & Developer**, *AZNet*, Paris.

- Migrated the existing infrastructure from rented servers to a full owned network in a collocated datacenter in Paris. Requested an IPv4 PI block to the RIPE NCC, designed the whole network of routers, switches and rack cabinets and managed the deployment of approximately 120 dedicated servers with a total throughput of  $\approx 400$  mbps for the hosting division Hiwit.net.
- Developed and setup automatic deployment of various game servers for the hosting division Hiwit.net.
- Development and system administration of the first version of the hosting provider allo-heberge.com and allo-nom.com, the very first web hosting service paid by premium rate numbers.

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## Extra-Professional Experience

### Open Source

Since 2008 **Treasurer & Developer**, *VideoLAN*.

- Treasurer of the VideoLAN association since september 2013.
- VLC and VLC for Android developer.
- Ex-Lead developer and initiator of VLMC, the non-linear and cross-platform Video Editing Software based on VLC's core.
- Organization's mentor for the Google Summer of Code 2009, 2010 and 2011.

Since 2007 **Supporter**, *APRIL*.

Active supporter of APRIL, the main French advocacy association devoted to promote and protect Free/Libre Software.

### Other

Since 2010 **FreeWiFi**, *Android*.

Development of a Wi-Fi connection manager for the FreeWiFi community network. The app is available in the Google Play Store with  $\approx$  45K active users in France.

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## Computer skills

Programming	C/C++, Go, Python, Shell	Libraries	libevent, pthread
Databases	PostgreSQL, MySQL	No-SQL	Cassandra, Redis, Riak, MongoDB
Web	HTML, PHP, Javascript	Security	OpenSSH, OpenVPN, ACL, iptables
Frameworks	Qt, jQuery, Django	Network	Nagios, Asterisk, BGP
Cloud	AWS, Xen, Puppet	OSes	GNU/Linux, FreeBSD, Windows
Mobile	Android, JNI, Java		

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## Languages

French	<b>Native</b>
English	<b>Fluent</b>
German	<b>Basic</b>

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## Leisure & Interests

Sports Swimming, Snowboarding, Skiing and Hiking

Music DJ from 2002 to 2004, animation of a weekly radio show dedicated to electronic music on the Frequence3 webradio during the year 2004 and DJ/producer since 2012.