

# Jean-Charles Quillet

SENIOR SOFTWARE DEVELOPER · FUNCTIONAL PROGRAMMING

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## Summary

I am a software developer with a large experience in very diverse fields. I have worked as a backend developer, have wrote desktop applications, simulation software as well as network servers.

I have had the chance to work with low level object orientated programming such as C++ which I have used professionally for more than ten years, and also with very high level functional programming languages such as Haskell. Theses different approaches give me a good comprehension of the mechanisms at work in software development, always driven by the goal of developing correct, safe and robust software.

## Skills

**Main skills:** Architecture and software design  
Functional programming  
Object oriented programming  
Networking / Linux systems administration  
Geographic information systems  
Geometry and 3D rendering

**Operating systems:** Windows, Linux (NixOS, ArchLinux, Ubuntu, CentOS, Debian)

**Programming languages:** Haskell, Elm, C/C++, nix, Python, Bash

**Development tools/Continuous integration:** GNU make, GIT, SVN, gprof, Jenkins, Travis, Ansible, Docker

**Scientific tools:** Matlab, Octave, gnuplot

**Languages:** French: mother tongue, English: fluent, Espagnol: beginner

## Experience

### Secucloud

Hamburg, Germany / Remote

CLOUD SOFTWARE DEVELOPER

Since 11/2020

- Development of network security software in a cloud architecture
- International team, full time remote
- Technical environment: Linux, Haskell, nix, Ansible

### Scalian

Rennes

SOFTWARE DEVELOPER FOR A SUBCONTRACTOR COMPANY

04/2007 - 11/2020

- Developing simulation software in the department Simulation, HPC and Virtual Reality
- Architecture and technical lead
- Technical documentation writing
- Clients: french MoD, ONERA, CEA, CNES, IRSN
- Technical environment: Windows/Linux, C++, Python, Matlab, Qt, openscenegraph, gdal

### LaBRI Analysis and indexing video team (University lab)

Bordeaux

RESEARCH ENGINEER

07/2006 - 08/2006

- Prepared the video indexing contests TRECVID and ARGOS
- System administration
- Technical environment: Linux, C/C++, XML, Perl, Bash, SVN

### INRIA IPARLA team (French IT lab)

Bordeaux

RESEARCH ENGINEER

09/2004 - 04/2006

- Visualization of city models on mobile devices thought non-photorealistic rendering
- Writing and presenting a scientific paper to the Web3D 2006 conference in Washington
- Technical environment: Linux, Windows, Windows Mobile, C/C++, Bash, Perl, VRML97, X3D, CVS

### Keyghost

Christchurch, New-Zealand

SOFTWARE DEVELOPMENT ENGINEER

04/2003 - 12/2003

- Development of security software
- Technical environment: Windows, Delphi, C/C++, Octave

## Visualpix

INTERNSHIP FOLLOWED BY A SOFTWARE ENGINEER CONTRACT

- Improved a video compression codec
- Technical environment: Linux, C, CVS

Bordeaux

04/2002 - 12/2002

## Glisshouse

BACKEND DEVELOPER, SYSTEM ADMINISTRATOR

- Web: Maintained an online shop, developed a CMS
- System administration: Installed, setup and maintained LAN (router, DNS, firewall, proxy, backup management, file server, print server)
- Technical environment: Linux, Php, MySQL, Apache, Samba, cron

Marseille

07/2000 - 03/2001

## Education

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2001 - 2002 **DESS Multimedia and Information Technology** Image synthesis and analysis, 3D geometry and rendering, sound, video

Bordeaux university

1999 - 2000 **Master in computer science** Option image synthesis

Poitiers university

1998 - 1999 **B.S. in computer science**

Limoges university

1996 - 1997 **DEUG computer science and mathematics**

Limoges university

1995 - 1996 **Baccalauréat Science**

Lycée Jean Giraudoux, Châteaoux

## Extracurricular Activity

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**Sports:** Rock climbing, bike commuting, surf, trekking

**Culture:** Literature (classical, travel, adventure), cinema, attending rock concerts, guitar playing

**Community commitments:** Member of the direction comity of the rock climbing club of Rennes (2012 to 2016)  
Volunteered at concert venues of Rennes: Antipode (2011 to 2015), le Jardin Moderne (2009 to 2010)  
Volunteered to the music festivals Epipapu (2009, 2010) and la Route du Rock (2008 - 2018)

**Travel:** New-Zealand, Australia, USA, Canada, Malaysia, Bali, Bolivia, Iceland, Norway, Scotland, Faroe Islands