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-oriented 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, Clickhouse

Epitech   *Rennes*

Functional programming teacher   *09/2021 - 06/2023 (part time)*

- Supporting the students with their Haskell projects (Arithmetic expression evaluator, List interpretor, image compression algorithm ...)
- Technical environment: Linux, Haskell, nix

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 *Bordeaux*

INTERNSHIP FOLLOWED BY A SOFTWARE ENGINEER CONTRACT *04/2002 - 12/2002*

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

Glisshouse *Marseille*

BACKEND DEVELOPER, SYSTEM ADMINISTRATOR *07/2000 - 03/2001*

- 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

Education

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, Châteauroux*

Extracurricular Activity

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