

# 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 written 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. These 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

<b>Main skills</b>	Architecture and software design Functional and object oriented programming Networking / Linux systems administration Geographic Information Systems Geometry and 3D rendering
<b>Programming</b>	Haskell, Rust, Elm, C/C++, Python, Bash
<b>Development tools</b>	Nix, Make, Git, Jenkins, Ansible, Docker
<b>Scientific tools</b>	Matlab, Octave, gnuplot
<b>Operating systems</b>	Windows, Linux (NixOS, ArchLinux, Ubuntu, CentOS, Debian)
<b>Languages</b>	French: mother tongue, English: fluent, Spanish: beginner

## Experience

### Tiko

BACKEND DEVELOPER

Zürich, Switzerland / Remote

Since 01/2024

- Interface between IoT devices and backend services
- Technical environment: Linux, Haskell, nix, K8s, PostgreSQL, MySQL, Redis, Kafka, MQTT

### Secucloud

CLOUD SOFTWARE DEVELOPER

Hamburg, Germany / Remote

11/2020 - 11/2023

- Developed cloud network security software
- Technical environment: Linux, Haskell, JavaScript, nix, MySQL, Ansible, Redis, Clickhouse

### Epitech

FUNCTIONAL PROGRAMMING TEACHER

Rennes, France

09/2021 - 06/2023 (part time)

- Supported the students with their Haskell projects (Arithmetic expression evaluator, Lisp interpreter, image compression algorithm ...)
- Technical environment: Linux, Haskell, nix

### Scalian

SOFTWARE DEVELOPER FOR AN IT SERVICES COMPANY

Rennes, France

04/2007 - 11/2020

- Developed 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)

RESEARCH ENGINEER

Bordeaux, France

07/2006 - 08/2006

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

### INRIA IPARLA team (French IT lab)

RESEARCH ENGINEER

Bordeaux, France

09/2004 - 04/2006

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

## Keyghost

SOFTWARE DEVELOPER

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

Christchurch, New-Zealand

04/2003 - 12/2003

## Visualpix

INTERNSHIP FOLLOWED BY A SOFTWARE ENGINEER CONTRACT

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

Bordeaux, France

04/2002 - 12/2002

## Glisshouse

BACKEND DEVELOPER, SYSTEM ADMINISTRATOR

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

Marseille, France

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**, image synthesis and analysis

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

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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