

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

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

- Develop 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, List interpreter, image compression algorithm ...)
- Technical environment: Linux, Haskell, nix

Scalian

SOFTWARE DEVELOPER FOR A SUBCONTRACTOR 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

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

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