

Jean-Charles Quillet

SENIOR SOFTWARE DEVELOPER · FUNCTIONAL PROGRAMMING

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Summary

I am a software developer with extensive experience in a wide range of domains. I have worked as a backend developer, have written desktop applications, simulation software as well as network servers.

Over the years, I have had the opportunity to work with low-level, object-oriented languages such as C++, which I have used professionally for more than a decade, as well as high-level functional languages such as Haskell. This combination of experiences has given me a strong understanding of the principles that drive software development, always with the goal of creating correct, safe, and reliable systems.

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

Zürich, Switzerland / Remote

Since 01/2024

BACKEND DEVELOPER

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

Secucloud

Hamburg, Germany / Remote

11/2020 - 11/2023

CLOUD SOFTWARE DEVELOPER

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

Epitech

Rennes, France

09/2021 - 06/2023 (part time)

FUNCTIONAL PROGRAMMING TEACHER

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

Scalian

Rennes, France

04/2007 - 11/2020

SOFTWARE DEVELOPER FOR AN IT SERVICES COMPANY

- 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)

Bordeaux, France

07/2006 – 08/2006

RESEARCH ENGINEER

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

INRIA IPARLA team (French IT lab)

Bordeaux, France

09/2004 – 04/2006

RESEARCH ENGINEER

- 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	<i>Bordeaux university</i>
1999 - 2000	Master in computer science , image synthesis and analysis	<i>Poitiers university</i>
1998 - 1999	B.S. in computer science	<i>Limoges university</i>
1996 - 1997	DEUG computer science and mathematics	<i>Limoges university</i>
1995 - 1996	Baccalauréat Science	<i>Lycée Jean Giraudoux, Châteauroux</i>

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