

Olivier Gayot

Software Engineer, Open Source Enthusiast



About

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France

–
30 years old
Driving License

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Languages

french: mother tongue
english: fluent

Experience

- Since. Nov. 2021 **Canonical, Full Remote** Software Engineer
- Member of the Foundations team, working on developing the Ubuntu OS
 - Focused mainly on Ubuntu installer related topics
- Mar. 2020 **Murex, Paris (France)** Technical consultant
→Nov. 2021
- Contributed to the implementation of internal tools for test automation, monitoring and non-regression testing.
 - Was technical point of contact for half a dozen clients.
 - Was responsible for providing technical support to address production issues.
 - Contributed to implementation projects for clients upgrading their Murex software or bringing in new modules to their existing instance.
 - Main technologies used: GNU/Linux, Python 3, Shell scripting.
- Oct. 2015 **Satcom1, a Honeywell Company, Le Bourget (France)** Software Engineer
→Feb. 2020
- Contributed to the software solution running on routers for business jets aviation, providing support for various satellite-based connectivity hardware but also cellular network (GSM), Wi-Fi and Ethernet.
 - Worked on design, implementation, packaging and review of the software with a strong focus on robustness and cyber security aspects.
 - Was responsible for maintaining and extending the software component managing the LAN devices in the cabin.
 - Became the main contact for all cyber-security related discussions involving the product.
 - Main technologies used: GNU/Linux, C++, Perl, Python 3 and shell scripting.
- Oct. 2014 **University of Kent, Canterbury (United Kingdom)** Teacher assistant
→Jan. 2015
- Ran small classes (i.e. seminars, terminal sessions) of "software engineering" and "algorithms & complexity" to undergraduate students in years 1 and 2.
 - Was responsible for marking their coursework.
- Apr. 2014 **BayLibre, Valbonne - Sophia Antipolis (France)** Intern
→Sep. 2014
- Troubleshooted and corrected issues found on the latest versions of the Linux Kernel and Android for the BeagleBone Black.
 - Contributed to a Power Cape project for the same board.
 - Main technologies used: GNU/Linux, C, JavaScript.
- Oct. 2013 **Intersec, Paris (France)** Part time software developer
→May 2014
- Worked on enriching the scope of the software solution designed and developed during my internship in the company (2012).
 - The software solution was simulating the motions of a large number of mobile network subscribers in a designated geographical zone.
 - Added support, as an addition to 2G/3G cells in the coverage map, for Wi-Fi Access points,
 - Main technologies used: GNU/Linux, C.

Education

Jul. 2014 →Sept. 2016	Master degree of Information Technology	EPITECH Paris, France
Sept. 2014 →Sept. 2015	One year as exchange student <i>Course of Computer Security</i>	University of Kent, England
Oct. 2011 →Jul. 2014	Bachelor degree of Information Technology	EPITECH Nancy, France

Interests

- *Embedded software development*
- *Networking software development*
- *Open Source software development*
- *Computer security (exploitation and prevention)*
- *Software Design and Architecture*
- *Software Deployment*

Programming Languages

C	Proficient <i>Extensive user of the functionalities provided by modern revisions of the language and the GNU extensions. Have been programming in C for over a decade for professional and personal purposes.</i>
C++	Proficient <i>Was working with C++ in my previous position. C++ being the core language used there to write the software.</i>
Python 2&3	Intermediate <i>Using Python for personal purposes and as a general purpose language for my current job.</i>
Perl	Intermediate <i>Also using Perl extensively as a CGI in my previous work environment.</i>

Software

Operating System

- *Have been using GNU/Linux on a daily basis for over a decade.*
- *Occasional user of Microsoft Windows & macOS.*

Version Control

- *Intensive user of Git for both professional and personal purposes.*

Build System

- *GNU Autotools & GNU make*
- *GCC - The GNU Compiler Collection*

Debugging

- *GDB - The GNU Project Debugger*
- *Valgrind*
- *strace*

Networking

- *iproute2*
- *iptables & nftables*
- *tcpdump & Wireshark*

Virtualization

- *KVM & VirtualBox for Virtual Machines*
- *LXC & nspawn for containers*

RDBMS

- *SQLite, MySQL & Sybase ASE*

Init System

- *Systemd*