

# Aurélien Chabot

Linux Software Engineer

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🌐 www.chabot.fr

French - 30 years old

Highly experienced software developer in C++, Java and Python. I have a strong knowledge of the Linux environment, Linux embedded systems as well as optimized server software. I love learning and discovering new tools and technologies and I have knowledge in other programming languages such as Go and Rust. I am an experienced Scrum developer.

## SKILLS

Programming C++, Java, Python, Go, Rust, C, Bash, Javascript, PHP, SQL, HTML, CSS  
Libraries/Tools Git, Android, QT, OpenCV, Buildroot, Boost, Gstreamer, Kafka  
Platforms GNU/Linux, Busybox/Linux, Android

## EXPERIENCE

Nov 2017 - **Software engineer, Hydrix, Melbourne.**

Now Design and development of customer define projects

*Technical environment:* C++, Linux

Sept 2016 - **Software engineer, Financial protocols analysis, Corvil, Dublin.**

Sept 2017 Design, development, and evolution of the broad range of Corvil Analytics Plugins for all major worldwide financial, middleware and enterprise data protocols. Features of those plugins include latency tracking, order tracking as well as malware and threat detection.

*Technical environment:* C++, Boost, Java, Kafka, Linux

Dec 2014 - **Software engineer, Infotainment system for cars, Parrot Automotive, Paris.**

Sept 2016 Android application development, developing middleware interfaces to component such as radio and Bluetooth as well as graphical views and behaviours of the media, telephony and system applications. Conception of Android and Linux based system with the business development team.

*Technical environment:* Android, Java, C++, Android Studio, Vim, Git, Linux

Jun 2014 - **Software engineer, OTT video streaming** (contractor for OpenWide), *Anevia, Paris.*

Nov 2014 Development for a server providing video content with OTT protocols (DASH, HLS...).

Migration to PostgreSQL (from SQLite) by writing database management tools in python up to the web user interface in PHP. Worked also on database request optimization as well as load balancing and fail over strategy development.

*Technical environment:* Python, C++, PostgreSQL, PHP, Javascript, Debian, Vim, Git/SVN, Linux

Nov 2013 - **Software engineer, Image processing and Linux system development, OpenWide, Paris.**

May 2014 Project to optimize the park time of automatic subway with video analysis and real time communication with the command centre. Image processing optimization and adaptation of existing algorithms. Architecture and development of the communication stack between on site server and the centralized one, as well as with the command centre. Architecture and development of a global control application of the system in Qt. Project and team leading.

*Technical environment:* C++, OpenCV, QT, Python, Thrift, Boost, RobotFramework, Vim, Git, Linux

Sept 2012 - **Software engineer, Infotainment system for cars** (contractor for OpenWide), *Parrot, Paris.*

Oct 2013 Integration and development of a module dedicated to Bluetooth, Wifi and USB connectivity acting as a provider of service to the main infotainment system. Embedded Linux integration. Development of specific client feature into the core application in C++. Handling of client technical request and feedback.

*Technical environment:* C/C++, Bash, Python, Vim, Git, Linux

- Sept 2011 - **Software engineer, Image processing and Linux system development**, *OpenWide, Paris*.  
Aug 2012 Software helping maintaining the reliability of big CCTV network by doing daily check on recordings.  
Image processing optimization and adaptation of existing algorithms. Development of the JSON/REST communication stack between the treatment server and the web server.  
*Technical environment:* C++, OpenCV, Vim, Git, Linux

## INTERNSHIPS

- Mar - Aug **Internship in image processing development**, *OpenWide, Paris*.  
2011 C++ development for CCTV image processing. Development with QT and OpenCV.
- Summer 2010 **Internship in an image processing laboratory**, *South Dakota State University (US)*  
Development of a tool to apply an interpolation algorithms on a satellite database with Matlab.
- Summer 2009 **Internship in web development**, *JNOV, Toulouse*.  
Development in html, php, sql and javascript. Use of library and api : Google Map, fpdf, JQuery...

## PERSONAL PROJECTS

- DroidUPnP **Android application** to control UPnP device and share local multimedia content.
- Home-Pi **A Home domotique domotic service on top of a raspberrypi**. By controlling multiple temperature sensors (DHT11 + ESP8266) and a radio emitter (through GPIO), home heaters and lights are monitored, controlled and scheduled from a phone or a computer.

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## STUDIES

- 2008 - 2011 **Master of Engineering in Computer Science**, *INP ENSEEIHT (top ranking engineering school), Toulouse (France)*  
Specialized in Computer Science and Applied Mathematics.  
*Subjects:* Theory of computation, Software engineering, Computer architecture, Concurrent computing, Middleware, Real time computing, Network architecture, Compilation.
- Sept - Dec **Master of Engineering in Computer Science**, *HKU (Hong Kong University)*.  
2010 Exchange student in undergraduate and postgraduate courses.  
*Subjects:* Multimedia computing and application, Computer and network security, Embedded System and pervasive computing, Implementation, Testing and Maintenance of Software Systems, Wireless communication, Image processing and computer vision.
- 2005 - 2008 **Three year intensive undergraduate course in preparatory classes** for competitive entrance exams into national engineering schools, *Lycée Faidherbe, Lille (France)*.  
*Subjects:* Mathematics, Physics and Computing
- 2004 - 2005 **Scientific Baccalaureate with distinction (French equivalent of 'A' levels in Mathematics, Physics and Biology)**, *Lycée Robespierre, Arras (France)*.

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## LANGUAGES

- French **Native speaker**  
English **Full professional proficiency**