

# 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 optimised 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

Programmings 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 optimisation 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 optimise the park time of automatic subway with video analysis and real time communication with the subway command centre.

Image processing optimisation and adaptation of existing algorithms. Architecture and development of the communication stack between the on site server and the centralised 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, Multimedia embedded system for cars (contractor for OpenWide),**

Oct 2013 *Parrot, Paris.*

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 recording.

Image processing optimisation and adaptation of existing algorithms. Development of the JSON/REST communication stack between the treatment server and web server.

Technical environment : C++, OpenCV, Vim, Git, Linux

## INTERNSHIPS

Mar – **Internship in image processing development**, *OpenWide*, Paris.

Aug 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 tools to apply an interpolation algorithms on a satellite database with Matlab.

Summer 2009 **Internship in web development**, *JNOV*.

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 domotic service on top of 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 ).

Specialised in Computer Science and Applied Mathematics.

Subjects : Theory of computation, Software engineering, Computer architecture, Concurrent computing, Network architecture, Compilation.

Sept – **Master of Engineering in Computer Science**, *HKU (Hong Kong University)*.

Dec 2010 Exchange student in undergraduate and postgraduate courses.

Subjects : Multimedia computing and application, Computer and network security, Embedded Systems and pervasive computing, Implementation, Testing and Maintenance of Software Systems, Wireless, 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

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