

# Aurélien Chabot

Software Engineer

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French - 31 years old

Skilled and passionate Software Engineer with 7+ years of experience working in a variety of environments with a breadth of programs and technologies. After graduating from a top ranked engineering school in France, I made significant work contribution to highly successful companies in France, Ireland and Australia. With a Linux environment oriented profile, I am proficient in C++, Java and Python as well as with containers, virtualisation and cloud technologies.

## SKILLS

C++	● ● ● ● ●	Git	● ● ● ● ●	Android	● ● ● ○ ○
Java	● ● ● ● ○	Docker	● ● ● ● ○	QT	● ● ● ○ ○
Python	● ● ● ● ○	GoogleTest	● ● ● ● ○	JavaScript	● ● ○ ○ ○
Bash	● ● ● ● ○	Boost	● ● ● ○ ○	AWS	● ● ○ ○ ○
Go	● ● ○ ○ ○	Rust	● ○ ○ ○ ○	Kafka	● ● ○ ○ ○

## EXPERIENCE

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

Now Collision avoidance system for mining truck using RF ranging, V2V communication and GPS information.

- Design and estimation of customer projects.
- Development of complex systems with multiple software components.

C++ Python Linux Docker Protobuf GoogleTest Scrum

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

Sept 2017 Development of 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.

C++ Boost Java Kafka Linux Scrum

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

Sept 2016 Middleware interfaces development for components such as radio and Bluetooth. Android development for media, telephony and system applications. Prototyping of Android and Linux based system with the business development team.

Android Java C++ Android Studio Vim Git Linux Scrum

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

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

- Development of configuration and operational components in Python, PHP and C++.
- PostgreSQL database and request optimization.
- Load balancing and failover strategy development.

Python C++ PostgreSQL PHP JavaScript Debian Vim Git Scrum

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

May 2014 Live video analysis project to optimize the park time of an automatic subway.

- Image processing optimization and adaptation of existing algorithms.
- Design and development of a communication protocol between on site servers and the central server
- Design and development of a system status and configuration visualization software in QT.
- Project and team leading.

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 C++ development of a multimedia system using Bluetooth, Wifi and USB technologies.

- Embedded Linux integration.
- Handling of customer technical request and feedback.

C/C++ Bash Python Vim Git Linux

Sept 2011 - **Software engineer, Image processing and Linux system development**, *OpenWide, Paris*.

Aug 2012 Software helping to maintains the reliability of big CCTV network by doing daily checks on recordings.

- Image processing optimization and adaptation of existing algorithms.

- Development of a JSON/REST communication stack between the treatment server and the web server.

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 algorithm on a satellite image 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

Transmission- **RSS tracker wrote in Go**. Track RSS feeds of torrent and add them to transmission for downloads.  
RSS

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