

# Christophe-Marie Duquesne

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Software Engineer, Data Scientist  
**Python, Linux**

I am French, living in Munich. I am after ambitious projects that will challenge me and allow me to grow my skills. I like to ship clean, continuously deployed code. I am a Vim user and a Belgium beer lover.

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## Corporate Experience

- Since 2013**     *Data Scientist for **Amadeus | Travel Intelligence** (Munich, Germany).*
- Hadoop-based Mining on Travel Industry Data (Max 1 Petabyte). Wrote Flask web services, shipped as Debian packages and continuously integrated with Jenkins. Participated in various devops tasks: log collection, user authentication, transfer between data centers.
- 2009-2013**     *PhD in Operations Research with **Amadeus** (Sophia Antipolis, France).*
- Researched how to assign aircraft on an airline network in the most efficient way. Authored a C++ solver, a Python suite of 20+ command line tools, and Hadoop data mining scripts. Worked as a teaching assistant at the university and further improved my communication and public speaking skills.
- 2008 (3 months)**     *Internship at **Rio Tinto Alcan** (Clermont Ferrand, France).*
- Authored a C++ library for optimizing the revenue of a metal factory. The software was based on a Linear Programming model and outperformed the existing in-house tool.

## Open Source Contributions

- Python**     Contributor to **pulp-or**, a Linear Programming library. Author of **flasfka**, an http bridge for posting/getting messages to Apache Kafka. Author of **persistendicts**, a library exposing various databases with Python dict-like interfaces.
- Lua**     Author of **lighttpd-external-auth**, a lighttpd magnet script allowing access control via mechanisms such as OpenId.
- Go**     Author of **github.com/chmduquesne/rollinghash/adler32**, a rolling version of the Adler32 hash. Contributor to **jackpal/gateway**, a library for discovering the address of a LAN gateway used in **Tapei-Torrent**.
- C++**     Author of **yaposib**, a Python binding to **coin-Osi**. Awarded **full membership** in the coin-or foundation in return.
- C**     Author of **lazympsolverlibs**, a set of proxy libraries targeting cplex, gurobi and xpress.

- Java** Author of **talkmyphone**, an android application allowing phone control via gtalk (10.000+ downloads, forked 50 times on googlecode). It was then successfully handed over to **other developers**.
- Misc** Experience with **Arch Linux**, Ada, Bash, Makefile, m4, autotools, cmake... See my **github** account and my **blog**.

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## Education

- 2009-2012** *PhD in Mathematics and Computer Science at **G-SCOP Laboratory** (Grenoble, France).*
- Integration of Fleet Deployment and of Passenger Service in Airline Schedule Management.** Done at Amadeus, in the Operation Research team led by **Semi Gabteni**. Advisors: **Denis Naddef**, **Olivier Briant**. Defended in January 2013.
- 2005-2009** *MS in Computer Science in ENSIMAG (Grenoble, France).*
- Top French school of Applied Mathematics and Computer Science with highly selective recruitment.

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## Activities and interests

- Hobbies** I like travelling. I backpacked in 13 countries in Eastern Europe and South East Asia.
- Sports** Running, Cycling, Hiking. I also played rugby union for 7 years.
- Activities** I was the president of the **Grand Cercle**, one of the largest French campus student associations (5.000 members) during university.

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