Christophe-Marie Duquesne

Specialties: C++, Python, Linux, Operations Research Doctor in Computer Science and Mathematics

Corporate Experience

Since June 2014 Data Scientist for Amadeus Travel Intelligence (Munich, Germany).

Implemented an authenticating proxy on top of nginx and lua. Implemented generalized logging on our platform based on ELK and HAproxy and deployed with

chef.

Nov 2013-Jun Data Scientist for Airconomy (Frankfurt am Main, Germany).

Hadoop-based Mining on Travel Industry Data, Implemented Flask web services.

shipped as debian package and continuously integrated with Jenkins.

2009-2012 PhD in Operations Research with Amadeus (Sophia Antipolis, France).

Researched how to assign aircraft on an airline network in the most efficient way. I authored several projects, including a C++ solver, a Python suite of 20+ command line tools, and Hadoop data mining scripts. I also worked as a teaching assistant at the university, further improving my communication and public speaking skills.

2008 (3 months) Internship at Rio Tinto Alcan (Clermont Ferrand, France).

Co-authored a C++ library for optimizing the revenue of a metal factory. This work was published in the corporate journal of the company.

2007 (3 months) Internship at GE Healthcare (Paris, France).

Elaborated an UML spec for the refactoring of 20.000 lines of C++.

Selected Open Source Contributions

Python Contributor to pulp-or, a linear programming Python library. Author of small tools, like

michel, a command line program providing bidirectionnal synchronization of google

tasks with text files.

C++ Author of yaposib, a Python binding to COIN-OSI that is now supported by pulp-or.

C Author of lazylpsolverlibs, a set of proxy libraries targeting cplex, gurobi and xpress.

I also started writing sharebox, a distributed FUSE file system based on git.

Java Author of talkmyphone, an android application allowing phone control via gtalk. It had

10.000+ downloads, and was forked 50 times. It was then successfully handed over

to other developers.

Misc Lua, Ada, Bash, Makefile, m4, autotools, cmake... See my github résumé. My

kudorank on ohloh is 9, among the top 2% of opensource developers.

Linux My daily operating system: I blog about it sometimes.

Education

2009-2012 PhD in Mathematics and Computer Science at G-SCOP Laboratory (Grenoble,

France).

Title: 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.

2002-2005 Preparatory classes in Lycée Thiers (Marseille, France).

Mathematics and Physics courses before a national competitive examination to

Grandes Écoles.

Activities and interests

Hobbies Sports Activities I like travelling. I backpacked in 13 countries in Eastern Europe and South East Asia.

Running, Cycling, Hiking. I also played rugby union for 7 years.

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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