



Gaël Lorieul

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HPC software developer

I am a High Performance Computing scientist (HPC), who decided to dedicate himself to software development.

SOFTWARE SKILLS

Advanced	C++11, Python
Medium	Java, Bash
Basics	C#
General skills	Unit & integration testing, Design patterns, Code versioning, etc.

LANGUAGES

Spanish	Professional and practical usage (B2)
English	Fluent (C1 to C2, TOEIC 970/990.)
German	Professional and practical usage (B2)
French	Native

WORK EXPERIENCE

2014–2018 4 years	PhD in numerical methods, Development of CFD simulation software <i>C++11, Python; Université catholique de Louvain; Louvain-la-Neuve (BE)</i>
2013 6 months	Internship, Implementation and testing finite difference schemes for aeroacoustics <i>Fortran95; Institut de Mécanique des Fluides de Toulouse; Toulouse (FR)</i>
2011–2012 6 months	Master thesis, Product optimisation using numerical simulation and experiments <i>StarCCM+; Krohne Messtechnik, Duisburg University; Duisburg (DE)</i>
2009 9 weeks	Internship, Detection and fixing of inconsistencies in equipment database <i>SAP, MS Excel, Visual Basic; Total S.A.; Aberdeen (UK)</i>
2009–2011 2 years	Student job, Network administrator in student residence <i>Linux servers, bash, SNMP, etc.; Résidence MIE; Toulouse (FR)</i>

EDUCATION & TRAINING

2012–2013 1 year	Specialization Master in fluids dynamics <i>Université Toulouse III Paul Sabatier, Toulouse (FR)</i>
2007–2012 5 years	Master degree in mechanical engineering <i>Institut Catholique d'Arts & Métiers, Toulouse (FR)</i>

MISCELLANEOUS

Hobbies	Tinkering (electronics, programming, cooking), collecting “old” electronic devices. Member of the ACCU ¹ , participated in SoCraTes BE ² events
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1. Association of C and C++ Users, accu.org
2. Software Crafting and Testing Belgium