

Tom Cornebize

*Student in computer science
Seeking a three month internship*

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Education

Ensimag <i>Grenoble INP - Superior National School of Applied Mathematics and Computer Science</i> Graduate specialization in Information Systems Engineering. Pursuing an Engineering degree. Expect to graduate in September 2017.	Grenoble, France 2015–2017
ENS Lyon <i>École Normale Supérieure de Lyon</i> Undergraduate and postgraduate intensive program in theoretical computer science. Obtained a Bachelor of Science, with great honor.	Lyon, France 2013–2015
Joseph Fourier University <i>Grenoble University</i> Undergraduate program in computer science and mathematics.	Grenoble, France 2011–2013

Experience

Research internships	
Bull, HPC R&D <i>High performance computing : job isolation in fat tree topologies</i> Under the supervision of Matthieu Perotin. <ul style="list-style-type: none">- Designed several algorithms to prevent the leak of sensitive information in a cluster.- Implemented a proof of concept, in Python, and worked on its integration in Bull's software stack.	Grenoble, France May 2015–August 2015
Inria, AOSTE team <i>Modelisation and verification of concurrent systems</i> Under the supervision of Robert de Simone.	Sophia-Antipolis, France June 2014–July 2014
Verimag laboratory <i>Monitoring of distributed systems</i> Under the supervision of Yliès Falcone. <ul style="list-style-type: none">- Designed an algorithm for decentralized monitoring of distributed systems.- Implemented a proof of concept, in OCaml, to obtain experimental results.- Published a report at FORTE 2014 : "Efficient and Generalized Decentralized Monitoring of Regular Languages".	Grenoble, France June 2013–July 2013
Laboratoire d'informatique de Grenoble (LIG) <i>Monitoring of distributed systems</i> Under the supervision of Yliès Falcone.	Grenoble, France June 2012
Software projects	
OpenStreetMap rendering <i>Skills : Python, Numpy, OpenGL, OpenCL</i>	Grenoble, France February 2016–May 2016
Deca Compiler <i>Skills : Java, JUnit, Mockito, Cobertura, ANTLR</i> <ul style="list-style-type: none">- Developed a compiler for Deca, a simplified OOP language, in Java. Team of five students.	Grenoble, France January 2016
Stock Manager <i>Skills : Java, SQL, JDBC, JUnit</i>	Grenoble, France November 2015
Platypus <i>Skills : Python, PyUnit, HTTP, Stanford CoreNLP, NLTK</i> <ul style="list-style-type: none">- A modular and open source question answering framework. Team of seven students.- Developed a question parsing module in Python, with a grammatical approach (Stanford CoreNLP and NLTK libraries).	Lyon, France September 2014–December 2014
SAT Solver <i>Skills : C++, CppUnit</i> <ul style="list-style-type: none">- Developed a program to solve the SAT problem, in C++ language. Team of two students.- Implemented the DPLL algorithm, <i>Watched literals</i> and <i>clause learning</i> heuristics.	Lyon, France January 2014–May 2014

Languages

French: Mother tongue English: Fluent

Computer skills

Programming languages: Python, C, C++, Java, SQL, OCaml, Erlang, assembly languages (ARM and MIPS)
Presentation languages: L^AT_EX, Markdown