Tom Cornebize

Student in computer science
Seeking a three month internship

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Education

Ensimag   **Grenoble, France**
Grenoble INP - Superior National School of Applied Mathematics and Computer Science   *2015–2017*
Graduate specialization in Information Systems Engineering.
Pursuing an Engineering degree. Expect to graduate in September 2017.

ENS Lyon   **Lyon, France**
École Normale Supérieure de Lyon   *2013–2015*
Undergraduate and postgraduate intensive program in theoretical computer science.
Obtained a Bachelor of Science, with great honor.

Joseph Fourier University   **Grenoble, France**
Grenoble University   *2011–2013*
Undergraduate program in computer science and mathematics.

Experience

Research internships

Bull, HPC R&D   **Grenoble, France**
High performance computing : job isolation in fat tree topologies   *May 2015–August 2015*
Under the supervision of Matthieu Perotin.
  - Designed several algorithms to prevent the leak of sensible information in a cluster.
  - Implemented a proof of concept, in Python, and worked on its integration in Bull's software stack.

Inria, AOSTE team   **Sophia-Antipolis, France**
Modelisation and verification of concurrent systems   *June 2014–July 2014*
Under the supervision of Robert de Simone.

Verimag laboratory   **Grenoble, France**
Monitoring of distributed systems   *June 2013–July 2013*
Under the supervision of Yliès Falcone.
  - 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".

Laboratoire d'informatique de Grenoble (LIG)   **Grenoble, France**
Monitoring of distributed systems   *June 2012*
Under the supervision of Yliès Falcone.

Software projects

Deca Compiler   **Grenoble, France**
Skills : Java, JUnit, Mockito, Cobertura, ANTLR   *January 2016*
  - Developed a compiler for Deca, a simplified OOP language, in Java. Team of five students.

Stock Manager   **Grenoble, France**
Skills : Java, SQL, JDBC, JUnit   *November 2015*

Platypus   **Lyon, France**
Skills : Python, PyUnit, HTTP, Stanford CoreNLP, NLTK   *September 2014–December 2014*
  - 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).

SAT Solver   **Lyon, France**
Skills : C++, CppUnit   *January 2014–May 2014*
  - Developed a program to solve the SAT problem, in C++ language. Team of two students.
  - Implemented the DPLL algorithm, *Watched literals* and *clause learning* heuristics.

Languages

French: Mother tongue   English: Fluent

Computer skills

Programming languages: Python, C, C++, Java, SQL, OCaml, Erlang, assembly languages (ARM and MIPS)
Presentation languages: LaTeX, Markdown
Distributed systems / parallel programming: MPI, pthread, socket
Miscellaneous: GNU/Linux, Git, unit testing (CppUnit, JUnit, PyUnit)