

Matthieu Daumas | Graduate Student

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*Looking for 6-month internships in
research laboratories and PhD thesis opportunities*

Education

Master, Performance in Software, Media and Scientific computing – will graduate in 2018 <i>PSMSC (Univ. Toulouse & n7), including theory of distributed systems, research methodology</i>	2017 - (2018) Toulouse – France
Master, Security of Information Systems and Networks <i>RT-SSIR (with TLS-SEC), including cryptography, kernels & hypervisors, x86 protected mode</i>	2016 - 2017 Toulouse – France
Engineering degree, studying computers – TLS-SEC, IT Security specialization <i>INP-ENSEEIH, including parallel & real-time computing, compilation, hardware architectures</i>	2014 - 2017 Toulouse – France
Preparatory course, polytechnic curriculum <i>CPPT, including linear algebra, organic chemistry, electronics and biology</i>	2012 - 2014 Toulouse – France

Work Experience

Research and Development in IT Security Testing <i>Airbus, EVYYS, tech. used: python, fuzz testing methodology, numpy, scikit-learn</i> Research and develop knowledge inference and test case reduction within the team's fuzzing framework.	March - Sep. 2017 Toulouse – France
SysAdmin & C++ developer in a small startup <i>Almena France, tech. used: Let's Encrypt, c++17, bash & zsh, SQL, apache2</i> Setup the startup infrastructure, various cloud-like self-hosted tools and work on a homebrewed crawler.	June - Sep. 2016 Muret – France
Research Intern, BEAMS Laboratory <i>ULB University, tech. used: python, PyQt, c++14, logic analyzers, sigrok-cli</i> Create a set of tools to instrument numerical analysis of discrete datagrams for practical courses.	June - Aug. 2015 Brussels – Belgium
Research Intern, IRIT Laboratory, SMAC Team <i>Paul Sabatier University, tech. used: java, grails & groovy, HTML5, CSS3, javascript</i> Assist in the organisation of the GDN2014 conference and in a group-decision support system development.	April - June 2014 Toulouse – France

Fields

Areas of interest: cryptography, distributed systems & games theory, peer-to-peer networks & software engineering
Skills: IT Security, programming, F/LOSS – and solving problems related to operating systems & my areas of interest
Languages: python, c++17, c, bash, (some) LISP scheme – and django-python, javascript, css3...
Software: git, vim, clang & gcc, numpy, NFLlib, opendht – and GNU/Linux, ArchLinux, Debian Stretch & sid

Foreign Languages

English: C1 Level, TOIEC 980 - Proficient speaker	German: Learning
French: Native - Fluent speaker	Japanese, Polish: Elementary

Independent Activities

Chairman, Toulouse Hacking Convention, Volunteering:
The THCon brings together IT security researchers and enthusiasts around conferences & a CTF (*Capture the Flag*).
ex-Treasurer, net7 – a local computer club, Volunteering:
Giving free training courses – GNU/Linux, python, GnuPG, C++14 & C, git, LDAP, python-django – to students.
ex-Member of the CTF team « Pony7 », Competitions:
I used to compete in CTFs within a team, we often scored in the top 5 at the national level (top 50 at the international).
Attending various conferences & symposiums:
Such as SSTIC (*Rennes, France*), CCC (*Leipzig, Germany*), FOSDEM (*Brussels, Belgium*) & St'Hack (*Bordeaux, France*).

Miscellaneous & Leisure

Working on a C++ template library for fast delegates, an IRC gateway and a didactic library for LWE lattice-based cryptography. Ant keeper of two young colonies, have played the Alto Saxophone for 10 years, woodworking & locksmithery.
Full clean driver's license.