

Laurent Prosperi

Computer Science student - Master 2

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Nationality: French

Education

- 2017 - 2018 **Master 2 in Computer Science**, *Ecole Normale Supérieure de Cachan*, Cachan, France.
Courses include: Constraint programming, Web data management, Semantics, languages and algorithms for multicore programming, Distributed algorithms on networks, Foundations of proof systems, Foundations of privacy, Proof assistants, Distributed algorithms on shared memory, Algorithmic verification of programs, Functional programming and type systems, Foundations of network models.
- 2016 - 2017 **Master 1 in Computer Science**, *Ecole Normale Supérieure de Cachan*, Cachan, France.
Courses include: Probabilistic Aspects of Computer Science, Network, Machine learning, Algorithmic and bioinformatics, Robot Motion Planning and Control, Software engineering
- 2015-2016 **L3 in Computer Science**, *Ecole Normale Supérieure de Cachan*, Cachan, France.
Courses include: Computational complexity theory, Process architecture, Computer programming, Discrete mathematics, Algorithmic, Databases, Formal language, Logic
- The Ecole Normale Supérieure de Cachan is one of only three prestigious higher-education institutions in France which provides specific training for students aiming to become university teachers and researchers in their field.
- 2012-2015 **Classe préparatoire in Mathematics and Physics, MPSI-MP-MP***, *Lycée Thiers*, Marseille, France.
A two-year course covering the first two years of the Licence which which is required in order to take the highly competitive entrance examinations for the prestigious French grandes écoles.
- Juin 2012 **Baccalauréat S, Mention Très Bien(highest grade)**, *Lycée Chevreul Blancarde*, Marseille.
The French national school-leaving qualification, with specialisation in science.

Internship

- February 2017 - June 2017 **Five month internship**, *TU Wien*, Vienna, Austria.
Internship with Prof. Ulrich Schmid concerning epistemic logic in asynchronous message-passing system with byzantine failure.
- Juin-Juillet 2016 **6-week internship**, *LIF*, Marseille, France.
I worked in DALGO team, with Emmanuel Godard and Arnaud Labourel, on Random Biased Walk for Rendez-vous and Exploration by mobiles agents

Software Projects

- September 2016 - January 2017 **Software engineering project : an IDE**, *Ecole Normale Supérieure de Cachan*, Cachan.
With a team of six students, we have designed and deployed a Smalltalk like IDE. My main contribution was to study and generalize over the AST of Ocaml and to handle the unitests and the continuous integration.
- February - May 2017 **Distributed filesystem with native deduplication**.
Development of a distributed and decentralized filesystem in Rust, highly scalable and fault-tolerant.
- 2014 - June 2016 **Distributed web crawler**.
Distributed and decentralized fault tolerant web crawler, handling the following protocols : http(s), ftp(s), bittorrent, hidden services of Tor.

- February 2015 **Tower defense 2D**, *Ecole Normale Supérieure de Cachan*, Cachan.
 - May 2015 Development of 2D tower defense in Scala with a team of three students.
 November 2015 **Compiler C-**, *Ecole Normale Supérieure de Cachan*, Cachan.
 2015 Compiler from a subset of C99 to Assembly X64, written in Ocaml.
 2014 **An incremental filesystem**, *Lycée Thiers*, Marseille.
 Local deduplication system for text file.
 2014-2015 **TIPE : Archiving cyber space time**, *Lycée Thiers*, Marseille.
 Distributed and centralized web crawler of http.

Computing skills

- Languages
- Beginner : Prolog, Assembly(x86-x64), JS, CSS, BASH, Erlang
 - Intermediate : Rust, X(HTML), C, PHP, Scala
 - Advanced : Python, C++, OCaml
- Proof Assistant
- Coq(Beginner)
- Latex
- Git, Subversion
- Database Management System
- MySQL, MariaDB, Redis, MongoDB(notions)
- Management
- Apache2, Iptables
- Web technology
- Bootstrap, Django
- Various
- RabbitMQ, Travis

Languages

- French native language
- English fluent working knowledge

Additional Information

- Permis B
- PSC 1 First Aid and CPR Certification

Extra Curricular Activities

- September 2016 - 2017 **Director of Pirat[ENS]**, *Ecole Normale Supérieure de Cachan*, Cachan.
 This the sailing association of the Ecole Normale Supérieure de Cachan, there is about 20 members. We organize sailing week-ends.
- April 2016 - March 2017 **Volunteer in KULTTE**, *Ecole Normale Supérieure de Cachan*, Cachan.
 This is the Kachan Ultra-Trail Team, there is about 50 members, we organize athletic training, trail week-ends and take part in sport competitions(as Raid CentralSupélec). I am in charge of communication and IT.

Other Activities

- Sports Running, Trail, Muay Thai, Raid, Swimming, Sailing
- Music Guitar
- Others War studies, geopolitics