

# Guillaume Claret

## Curriculum Vitae

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Born 23rd March 1989, Marseille (France)



### Work

- 2015–2018 **Frontend developer, OuiCar Paris.**  
JavaScript, React with prerendering, Redux, Flow, GraphQL, Jest, Storybook

### Education

- 2012–2015 **PhD of Computer Science (not finished), Université Paris VII and Inria,** with Yann Régis-Gianas.  
Extension of the proof language Coq to a programming language with effects.
- 2008–2012 **Élève Normalien, Computer Science Department of École Normale Supérieure,** Paris.
- 2011 **Parisian Master of Research in Computer Science, Université Paris-Diderot VII.**  
Classes about abstract interpretation, theorem provers, concurrent systems, compilers, linear logic, type theory, software engineering.
- 2006–2008 **Classes préparatoires aux Grandes Écoles, Lycée Thiers,** Marseille.
- 2006 **Baccalauréat S (Scientific), Lycée Bonaparte,** Toulon.

### Experiences

- Spring 2012 – Summer 2012 **Design of a compiler for probabilistic languages, Microsoft Research India, Bangalore,** with Sriram Rajamani and Aditya Nori.  
.Net, F#, probabilistic semantics, bayesian networks.
- Spring 2011 – Summer 2011 **Compiler and static analyzer of real-time ML language, Inria Paris,** Internship under the advisory of Roberto Amadio and Yann Régis-Gianas.  
OCaml, formal verification of compilers and real-time programs.
- Spring 2011 **French robotics contest with the ENS's team, La Ferté-Bernard, 24<sup>th</sup>.**  
C++, AI.
- 2010 – 2011 **Teaching of Maple practical classes, Lycée Saint Louis, Paris.**
- Spring 2010 – Summer 2010 **Optimistic Concurrency Using a Program Logic for History, Yale University,** Internship under the advisory of Zhong Shao.  
Coq, formal verification of concurrent programs.
- Summer 2009 **Design and proof of a pre-condition algorithm on C in Coq, INRIA Sophia-Antipolis Méditerranée,** Internship under the advisory of Anne Pacalet.  
Coq, C formal verification, Frama-C.
- Spring 2009 **Simulator of a robot moving without articulation.**  
Physics engine, C++.  
<http://guillaume.claret.me/bunach/>

- Spring 2009 **Simulation of an olfactory system.**  
Neuroscience, neural network, Python.
- Spring 2009 **Member of Cloudster, a  $k$ -means algorithm implementation on Cloud computing.**  
Visual Studio, C#, .Net, Windows Azure.  
<http://cloudster.sourceforge.net/>
- Since 2009 **Admin and development of TeeWorlds game servers.**  
Admin, C++, networking.
- Winter 2008 **Compiler of a subset of OCaml.**  
OCaml, Menhir, MIPS assembly.
- Winter 2008 **Electronic circuit simulator and design of a small microprocessor.**  
C, Ruby.
- Winter 2008 **ACM's algorithmic contest, Nuremberg, 5<sup>th</sup>.**  
2008 **Generator of walking creatures by genetic algorithms.**  
Physics engine, genetic algorithms, C.  
<http://guillaume.claret.me/projects/tipe/video.avi>

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## Skills

### Programming languages

- C, C++
- Plateforme .Net (C#, F#)
- OCaml, Coq (proof language)
- Ruby, JavaScript
- x86 and MIPS assembly languages
- Web technologies (HTML, CSS)
- SQL

### Software

- GNU/Linux (Red Hat based, Debian based), Windows
- Git, Mercurial and SVN version control systems
- NGINX / Lighttpd webserver
- Regular use of LaTeX, Beamer, Inkscape

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## Language skills

French	native
English	written and spoken
Spanish	scholar