

# SAMUEL GIFFARD

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## EDUCATION

- 2011-2012 MSc Computer Science University of Edinburgh – Scotland  
– Computer Systems, Software Engineering and High Performance Computing
- 2009-2011 BSc (Hons) Computer Science Robert Gordon University – Scotland  
– **First-class Bachelor with Honours** in Computing for Internet and Multimedia
- 2008-2009 Licence 3 Informatique Fondamentale Toulouse III (Université Paul Sabatier) – France  
– Equivalent: third year of BSc, Fundamentals in Computer Science
- 2007-2008 **DUT Informatique** IUT "A" – Toulouse III – France  
– Equivalent: HND Computing  
– Two-year University degree in Computer Science, in one intensive year (called "Année Spéciale")
- 2006-2007 CPGE TSI Lycée Jean-Baptiste Dumas – Alès – France  
– Preparation for national competitive entrance exams to leading French "Grandes Écoles", specializing in Mathematics and Physics
- 2006 Baccalauréat, in Electronics Lycée Antoine Bourdelle – Montauban – France  
– Equivalent: A-Levels  
– **Bac STI Génie Électronique mention Bien** (top 10%, ~ with Honours)

## ACHIEVEMENTS

- July 15, 2011 Graduated as **Valedictorian** 2010-2011
- July 1, 2011 Awarded the **Nexen Prize** for the highest academic achievement

## SKILLS

### Languages

- **French:** native language, **English:** fluent, **Spanish:** elementary

### Computer

- **Concepts:** Architecture, Multimedia, Security, Relational Databases, Distributed & Advanced Databases, High-Performance Computing, Object-Oriented, Complexity, Hadoop
- **Software:** Oracle, Eclipse, NetBeans, X-Code, Adobe (Dw, Ps, Sb, Fl)
- **Languages:** C/C++, Objective-C (iOS), JAVA, ARM, Python, OpenGL (Glut), Linux BASH, L<sup>A</sup>T<sub>E</sub>X, MySQL, Oracle PL/SQL, AS 2&3, JS, jQuery, OOP PHP5, HTML5/CSS3, XML (XPath, XQuery, DTD, XSD, XSLT), AJAX

### Leadership

- Elected twice as President of ASSERP, the Student Association in Ponsan-Bellevue (Toulouse – France). I coordinated the management of over ten societies, each with their own president
- Head Judge for the international game *Magic: The Gathering* in Nice – France
- Lead several university group projects to their completion and success

### Communication

- Judge for *MTG*, communication within a team and communication with players. Most of the tournaments have over 120 players and last for over 14 hours
- Worked as part of customer facing teams in Pizzerias, Restaurants, Tea house
- Led training courses for students in school: Technology in Middle School, Montauban – France
- Led campus tours at RGU, Aberdeen – Scotland

## WORK EXPERIENCES – Computer Science

- May 2012 - August 2012      MSc Dissertation      Edinburgh – Scotland  
Design and implementation of an online concurrent Open Source Framework for multiplayer board games. It must be an real-time asynchronous server-side event-driven solution. The aim is to deliver a robust product to the Open Source Community, as there is none that exist at the moment.
- Summer 2011      Freelance      Montauban – France  
Creation of the website [www.qualigraphe.com](http://www.qualigraphe.com) and creation of a light CMS with a few modules: a news engine, email engine, and some customized modules required by the client (website can be populated through MS Excel). The client provided the visual design of the website.
- October 2011 - May 2012      Honours Project      Aberdeen – Scotland  
*Modular Web Protection for Multi User Licensing Utilities* (MPW-Mulu for short) is a piece of software that allows web developers to generate alternative revenues through licensing so they do not have to disclose the source code of their products. The idea is to store the critical parts in a remote server and then to sell a non-complete version of the product. The sold product would then need to retrieve the missing bits after authenticating and to execute them on-the-fly. The original idea, implementation of the challenging solution and the proof that the solution would not be viable in a cheap environment have brought me a double-A.
- June-August 2008      Internship      Toulouse – France  
Creation of [www.amar-abraham.fr](http://www.amar-abraham.fr), a fashion designer website. Done in PHP/JS/HTML/CSS as part of the university curriculum. Back-end included in the work to do.
- October-November 2007      IT Maintenance      Toulouse – France  
*CROUS de Toulouse* is a public governmental company. They deal with everything related to studies and students in the Academy of Toulouse. My job there was to set up WIFI installations on two student campuses. I was recommended for the job by the one of the campus directors.

## WORK EXPERIENCES – Others

- Summer 2010, evening      Team member in Pizzeria      Montauban – France  
*Carnaval Pizza*, 11 rue Léon Cladel, 82000 Montauban
- Summer 2010, daytime      Team member in Tea house      Montauban – France  
*Ô Thé Divin*, 23 Pl Nationale, 82000 Montauban
- Summer 2010      Waiter in Restaurant      Melun – France  
Restaurant *La Belle Époque*, 14 Bd Chamblain, 77000 Melun
- June-August 2009      Team member in Domino's Pizza      Toulouse – France  
*Domino's Pizza*, 48 Route Narbonne, 31400 Toulouse, France
- February-May 2009      Training School      Montauban – France  
Technology in Middle School. Observing, helping students, assisting the teacher and lecturing on my own for the last lecture.  
*Collège Ingres*, 4 Place du Marchal Leclerc B.P. 833, 82008 Montauban Cedex

## MISCELLANEOUS

French driving license

**TOEFL iBT** (June 25, 2011): **107/120**

(Reading 23/30, Listening 27/30, Speaking 29/30, Writing 28/30)

## HOBBIES

Software development, Web development, weightlifting (5 years), Tennis (1 year), Go (also named Baduk, Weiqi, Weichi), travelling, baking

## REFEREES

- Professor Fan Wenfei      [wenfei@inf.ed.ac.uk](mailto:wenfei@inf.ed.ac.uk)      <http://homepages.inf.ed.ac.uk/wenfei>  
Dr. Niccolo Capanni      [niccolo@capanni.co.uk](mailto:niccolo@capanni.co.uk)      <http://www.linkedin.com/in/capanni>