

SAMUEL GIFFARD

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EDUCATION

- 2011 - 2012 MSc Computer Science University of Edinburgh – Scotland
+ **MSc Computer Science with Distinction** in 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, GDB, Valgrind, Adobe (Dw, Ps, Sb, Fl)
- + **Languages:** C/C++, Objective-C (iOS), JAVA, ARM, Python, Django, OpenGL (Glut), Linux BASH, L^AT_EX, MySQL, SQLite, 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

- + In Amadeus, supervised interns for three months on Django and for six months on Node.js / Aria Template.
- + Judge for *MTG*, communication within a team and communication with players. Most of the tournaments had 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

- Feb. 2016 - May 2016 IT Executive (Java, Python, R-Pi, Linux) Nice Area – France
- Lightning Project for **PwC** (IoT & B2B, Raspberry Pi), through SII. Creation of :
- + Generic persistence layer, called in REST and its Json implementation. Java / ServiceMix / Karaf.
 - + System Watchdog taking XMPP commands with a module-defined grammar. Python / Shell/ smx / init.d.
 - + Several Python scripts (eg. DTMF & Morse Code wrapping SoX).
 - + Front-End : HTML, Bootstrap & uikit, Angular 1.5.
- Nov. 2015 - Feb. 2016 IT Engineer (PHP, Java, C++, Linux) Nice Area – France
- Classified project for **Airbus D&S**, through Antyas. It involved, among others, SPOT satellites' image processing.
- Oct. 2012 - July 2015 IT Engineer (C++, Python, Sqlite, Oracle) Nice Area – France
- Member of the Data Replication team within **Amadeus'** Middleware department. Mainly focused on R&D tasks, I worked on:
- + designing new solutions to improve overall performance (reduce network overload, normalized and denormalized database designs, atomicity on fallbacks).
 - + data replication over thousands of nodes. The type of data is static (countries, time zones, holidays from IATA) and extremely dynamic (any application within Amadeus can use our Framework).
 - + designing and implementing abstract types across several containers (Oracle/Sqlite/C++) to erase our legacy data type discrepancies over the different parts of the data flow.
 - + various scripts to prototype or automatize tasks: storage / retrieval / backup / cleanup after each build...
 - + exporting data from our caches into two iterations of XMLs, generating XSLTs and XSDs from meta-XSLTs. This design allowed us to publish XML data into past and present schema versions.
 - + designed and implemented modified Hepburn algorithm for Japanese transliteration.
 - + decommissioned legacy terminal entries from IBM TPF system into Amadeus' new C++ architecture: OBE.
 - + maintenance, support and point of contact for our applications.
- May 2012 - Aug. 2012 MSc Dissertation (Python/Django, JS, HTML5/CSS3, L^AT_EX) Edinburgh – Scotland
- Design and implementation of an online concurrent Open Source Framework for multiplayer board games. It had to be a real-time asynchronous server-side event-driven solution.
- Summer 2011 Freelance (PHP, JS, HTML5/CSS3) Montauban – France
- Creation of the website www.qualigraphe.com, visual communication specialist 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.
- Oct. 2010 - May 2011 Honours Project (PHP, JS, HTML/CSS) Aberdeen – Scotland
- Created a piece of software that provides protection and license management to web developers. The original idea, its challenges and the proof that it would not be viable in a cheap environment earned me a double-A.
- Feb. - May 2009 Observation placement in Middle School (Technology) Montauban – France
- Helping students, assisting the teacher and lecturing on my own for the last session. School name: *Collège Ingres*.
- June - Aug. 2008 Internship (PHP, JS, HTML/CSS) Toulouse – France
- Creation of www.amar-abraham.fr, a fashion designer website.
- Oct. - Nov. 2007 IT Maintenance for **CROUS de Toulouse** (public establishment) Toulouse – France
- CROUS deals with things related to studies and students in one academy. My job there was to set up WIFI installations on two student campuses. I was recommended for the job by one of the campus directors.

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), MahJong MCR, travelling, baking

REFEREES

Professor Fan Wenfei	wenfei-at-inf.ed.ac.uk	http://homepages.inf.ed.ac.uk/wenfei
Dr. Niccolo Capanni	niccolo-at-capanni.co.uk	http://www.linkedin.com/in/capanni