### 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
- $+ \ \, \textbf{Software} \colon \text{Oracle, Eclipse, NetBeans, X-Code, GDB, Valgrind, Adobe (Dw, Ps, Sb, Fl)}$
- + Languages: C/C++, Objective-C (iOS), JAVA, ARM, Python, Django, OpenGL (Glut), Linux BASH, LATEX, 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

November 2015 - Now

IT Engineer (PHP, Java, C++, Linux)

Nice Area – France

Classified project for Airbus EADS, through Antyas. It involved, among other things, SPOT satellites' image processing.

October 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 logs and test results after each build on our test systems, ...
- + 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 - August 2012

MSc Dissertation (Python/Django, JS, HTML5/CSS3, LATEX) Edinburgh - Scotland

Design and implementation of an online concurrent Open Source Framework for multiplayer board games. It must be a 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 (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.

October 2010 - May 2011

Honours Project (PHP, JS, HTML/CSS)

Aberdeen - Scotland

Worked on a piece of software that provides an alternative to Advertising and Open Source to web developers. 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.

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 session. School name: Collège Ingres, Montauban – France

June - August 2008

Internship (PHP, JS, HTML/CSS)

Toulouse – France

Creation of www.amar-abraham.fr , a fashion designer website.

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.

# **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

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