

# SAMUEL GIFFARD

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🔗 Python Trainer, Engineer & Evangelist

## 🎓 EDUCATION

- 2011 - 2012 MSc Computer Science University of Edinburgh – Scotland  
+ **MSc Computer Science with Distinction** in Computer Systems, Software Engr. and High Perf. 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

- April 18, 2018 Python Challenge Europe 2018 **Winner Pro** (by Cisco, EDITx, ECAM)
- July 15, 2011 Graduated as **Valedictorian** 2010-2011
- July 1, 2011 Awarded the **Nexen Prize** for the highest academic achievement

## 🔧 SKILLS

### 🗣 Languages

- + **French:** native, **English:** bilingual, **Spanish:** ≈B1, **Dutch:** ≈A2, **Japanese:** ≈A1

### 💻 Computer

- + **Concepts:** Architecture, Multimedia, Security, Relational Databases, Distributed & Advanced Databases, High-Performance Computing, Object-Oriented, Complexity, Hadoop, Continuous Integration / Deployment
- + **Software:** Oracle, PyCharm, Eclipse, Xcode, PDB, GDB, Valgrind, Adobe (Dw, Ps, Sb, Fl), git, Jenkins
- + **Languages:** **Python**, FastAPI, Django, **C/C++**, Linux BASH, MySQL, SQLite, **Oracle PL/SQL**, EdgeDB, Objective-C (iOS), JAVA, ARM, OpenGL (Glut), L<sup>A</sup>T<sub>E</sub>X, JS, jQuery, PHP, HTML5/CSS3, XML (XPath, XQuery, DTD, XSD, XSLT), Bubble.io

### 👑 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 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

- Since Feb. 2022** Software Engineer (Python, FastAPI, Docker, Hiring) Amsterdam – Netherlands
- + In **Picnic**'s Python Platform (Middleware), creation of libraries, tools, and processes.
  - + Within the hiring team, I interviewed, reviewed and hired Python talents, and greatly improved the hiring process.
- April 2021 - Dec. 2021 PM & Senior Software Engineer (Py, PHP, n8n, R-Pi, Bubble) Kitakyūshū – Japan
- + Project Manager for SaaS platform for coworking spaces for **HOA**. Product design, DB tuning & Backend workflows. Process analysis, productivity assessment, training, consulting and B2B Tools (Slack, Jira, Confluence).
  - + Facial recognition project in IoT (Raspberry Pi, Python, ThingsBoard, MQTT).
- Feb. 2018 - May 2019 DevOps (Python, Jenkins, Groovy, GCP, PowerShell, Docker) Ghent – Belgium
- Promotion of software quality across **Around Media**.
- + Jenkins & Google CP to pipeline 1200+ UE4 builds, releases, migration of assets, VM backups & cloning.
  - + Creation of <https://github.com/Mulugruntz/jam> to save 500€+ / GCE instance monthly.
- April 2017 - Jan. 2018 Software Engineer (Python, Django, MariaDB, Postgres, Docker) Hasselt – Belgium
- MVP Developer for **Unleashed** (mobile telco) in a Kanban + Squad environment.
- Since July 2016** Independent Python Contractor Nice Area – France
- + Private financial market project. Python & Django missions. Python trainer for **AlterWay**, St Cloud, France.
- Feb. 2016 - June 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.
  - + Python (eg. DTMF & Morse Code wrapping SoX) and Front (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
- In Data Replication team within **Amadeus**' Middleware department. Mainly focused on R&D, I worked on:
- + designing new solutions to improve overall performance (network, database, algorithms).
  - + data replication over thousands of nodes. The type of data is either static or extremely dynamic.
  - + designing and implementing abstract types for consistency and bridge Oracle  $\rightleftharpoons$  C++  $\rightleftharpoons$  Sqlite  $\rightleftharpoons$  Python.
  - + 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.
- May 2012 - Aug. 2012 MSc Dissertation (Python/Django, JS, HTML5/CSS3, L<sup>A</sup>T<sub>E</sub>X) Edinburgh – Scotland
- Summer 2011 Freelance (PHP, JS, HTML5/CSS3) Montauban – France
- Creation of the website [www.qualigraphe.com](http://www.qualigraphe.com), and of its custom modular CMS. Visuals provided by the client.
- Oct. 2010 - May 2011 Honours Project (PHP, JS, HTML/CSS) Aberdeen – Scotland
- Feb. - May 2009 Observation placement in Middle School (Technology) Montauban – France
- June - Aug. 2008 Internship (PHP, JS, HTML/CSS) Toulouse – France
- Oct. - Nov. 2007 IT Maintenance for **CROUS de Toulouse** (public establishment) Toulouse – France

## 🔧 MISCELLANEOUS

French driving license

**TOEFL iBT** (June 25, 2011): **107/120** (Reading 23/30, Listening 27/30, Speaking 29/30, Writing 28/30)

## 🎮 HOBBIES

Dev, weightlifting (5 years), Go, MahJong MCR, boardgames, traveling, baking, hitchhiking, cultural exchanges

## 👤 REFEREES

Professor Fan Wenfei	<a href="mailto:wenfei-at-inf.ed.ac.uk">wenfei-at-inf.ed.ac.uk</a>	<a href="http://homepages.inf.ed.ac.uk/wenfei">http://homepages.inf.ed.ac.uk/wenfei</a>
Dr. Niccolo Capanni	<a href="mailto:niccolo-at-capanni.co.uk">niccolo-at-capanni.co.uk</a>	<a href="http://www.linkedin.com/in/capanni">http://www.linkedin.com/in/capanni</a>