

Marc Garcia

CURRIULUM VITAE

<http://datapythonista.github.io>

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Available to relocate and travel



Projects

Contractor as Quantitative Mining (UK)

Jan/2016– **Bank of America Merrill Lynch**, *Python developer*, London.

Present BofAML is one of the largest financial institutions in the world. As part of the Middle Office Technologies team, my responsibilities are to develop software to reconcile information among different systems.

Technologies: Python, Quartz, MS SQL Server.

Contractor as Accopensys (Spain)

Mar/2015– **Logitravel**, *Data Scientist*, Mallorca.

Nov/2015 Logitravel is one of the largest online travel agencies in Spain. My main responsibility was to mine user information from the website, to help optimize digital marketing campaigns. The job included pattern discovery techniques, development of machine learning models, and perform optimizations to the marketing strategy to maximize revenue and profit.

Technologies: Python, Pandas, Numpy, Bokeh, Mongo.

Master studies from 2012-2015 (see Education)

Jun/2012– **Unilever**, *Python developer*, Barcelona.

Mar/2013 Unilever is a British-Dutch multinational consumer goods company. Working for Unilever's Frigo brand (Wall's in the UK), I developed a web application for the sales force to manage merchandising actions for their hospitality customers. The technology used was a web application able to work without Internet access, using Google Chrome FileStorage API.

Technologies: Python, Django, JavaScript, JQuery, Chrome FileSystem API.

Feb/2011– **NTT Communications**, *Development leader*, Barcelona.

Jan/2012 NTT Communications is a subsidiary of Nippon Telegraph and Telephone Corporation, the largest telecommunication company in the world. As part of the application management division, my role was to lead a team of Python developers, building sysadmin tools to automate backups, monitoring, server maintenance, hardware and software inventory control, reporting systems, and other in-house developed applications.

Technologies: Python, Django, MySQL, Celery, XML RPC.

Jul/2009– **La Caixa**, *Python developer*, Barcelona.

May/2010 Development of a web application for "Obra Social La Caixa", the foundation of Caixabank, Europe's leading savings bank. The web application was designed as a catalog for the school activities offered by the bank museums CosmoCaixa and Caixa Forum.

Technologies: Python, Django, MySQL, JavaScript, JQuery.

- May/2009– **Django Software Foundation**, *Google Summer of Code Scholar*, Remote.
 Aug/2009 As part of the GSoC scholars, I worked in a project to improve the internalization of Django, the most popular Python web framework. Main improvements included the localization of dates and numbers in forms and templates.
 Technologies: Python, Django.
- Jan/2009– **Fluendo**, *Python developer*, Barcelona.
 Apr/2009 Fluendo is the primary maintainer of the open source GStreamer media framework. As part of Fluendo Embedded, the role consisted on the maintenance and development of new services for the Moovida (formerly Elisa) media center.
 Technologies: Python, Django, MySQL.
- Dec/2006– **Dot Mobile**, *PHP Developer*, Remote.
 Mar/2008 Dot Mobile was a mobile virtual network operator, focused on university students. My role was to develop new features and fix bugs in Dot Mobile's customer intranet.
 Technologies: PHP, MySQL.
- Jun/2006– **Transcom**, *Python Developer*, Barcelona.
 Nov/2008 Transcom is a Swedish multinational corporation which mainly offers call center services to its customers. The project consisted of developing a software application to facilitate the access to business information from heterogeneous systems of Transcom customers.
 Technologies: Python.

Consultant at SBD Technologies

- Mar/2004– **CAM**, *Software Developer*, Barcelona.
 Mar/2005 CAM, Caja de Ahorros del Mediterraneo, sold by Banco Sabadell in 2011, was a Spanish bank. The project consisted on the maintenance and development of new features of an in-house developed application to broadcast data among different middle office applications like Reuters Kondor+ and Sungard Panorama.
 Technologies: C++, Solaris, Visual Basic, MS SQL Server.
- Mar/2003– **La Caixa**, *Development leader*, Barcelona.
 Mar/2004 Development of a budget control application for PromoCaixa, a marketing subsidiary of La Caixa, the third largest financial institution in Spain. The application was used to define and control the strategy of La Caixa publicity expenses.
 Technologies: Visual Basic, Oracle, Crystal Reports.

Consultant at Azertia

- Feb/2002– **Applus+**, *Software developer*, Barcelona.
 Feb/2003 Applus+ is one of the world's leading testing, inspection and certification companies. The project consisted of the development of both front-end and back-end applications for vehicle inspection and certification.
 Technologies: Visual Basic, MS SQL Server.
- Feb/2001– **Gas Natural**, *Software developer*, Barcelona.
 Jan/2002 Gas Natural is a utilities multinational corporation focused on natural gas in Spain and Latin America. The project was part of the development of a Business Intelligence system, including a Data Warehouse, for customer information analysis.
 Technologies: Cognos, MS SQL Server.

Education

- Oct/2013– **International Master in Finance**,
Jun/2014 *Escuela de Alta Dirección y Administración, EADA*, Barcelona.
Ranked 21st best pre-experience finance master in the world by Financial Times in 2013.
Main courses:
- **Corporate finance**: financial accounting, valuation, M&A, private finance, auditing.
 - **Financial markets**: risk management, equity markets, capital markets, forex, derivatives, energy markets, trading, portfolio management.
 - **Management education**: strategic management, leadership, personal communication, negotiation, team working, business analysis, ethics.
- Feb/2012– **Master in Artificial Intelligence**,
Jun/2015 *Universitat Politècnica de Catalunya, UPC*, Barcelona.
Specialization in machine learning.
- Main topics:
- **AI**: problem solving, complex networks, PGM.
 - **Machine learning**: supervised/unsupervised learning, data mining, optimization, validation protocol, computer vision, natural language processing.
- Technologies used:
- **Python for data analysis** (pandas, numpy, scipy, matplotlib and scikit-learn) for projects on machine learning, exploratory analysis and complex networks.
 - **R** for projects with neural networks.
 - **Matlab** for projects on computer vision.
 - **Java** for projects in problem solving and NLP.
 - **C** for projects on optimization.
- Feb/2001– **Technical Engineering in Computer Science**,
Jun/2011 *Universitat Oberta de Catalunya, UOC*, Barcelona.
Specialization in business management.

Professional development

- 2012 **Introduction to computational finance and financial econometrics**
Coursera (University of Washington), 10 weeks
- 2012 **Introduction to Finance**, Coursera (University of Michigan), 10 weeks
- 2012 **Introduction to Statistics**, Udacity, 7 weeks
- 2012 **Machine Learning**, Coursera (Stanford University), 10 weeks
- 2011 **Introduction to Artificial Intelligence**, Udacity, 10 weeks
- 2005 **Ekon ERP**, CCS (Barcelona), 3 weeks
- 2002 **Java Servlets**, IDS Group (Barcelona), 80 hours
- 2001 **Cobol/CICS/DB2**, IESIM (Barcelona), 210 hours

Languages

Native **Spanish**
Fluent **English**
Basic **French**

Native **Catalan**
Fluent **Portuguese**
Basic **Chinese**

Computer skills

Programming Expert: Python, JavaScript/JQuery
Experience with: C, bash, PHP, VB/VBA, Java
Methodologies: Scrum, TDD, OOP
Tools: Git, Subversion, Jira, Trac

Data tools Pandas/numpy, Matlab/Octave, R

Databases SQL, PostgreSQL, MongoDB, MySQL, BigTable (NoSQL), MS SQL Server

OS Red Hat, Debian, Mac, Solaris, Microsoft Windows

Misc Django, Google App Engine, HTML/CSS, Networking

Talks

2016 PyData Amsterdam. CART: Not only classification and regression trees.

2015 PyBCN, Barcelona. High Performance Python.

2011 EuroPyCon 2011, Florence, Italy. Remote execution of Python scripts.

2009 DjangoCon 2009, Portland, OR. Panel on GSoC projects.

2008 Jornades de programari lliure, Barcelona. Django tutorial.

Miscellaneous

2013–2014 Class delegate at the International Master in Finance.

2012–2014 Organizer of a hiking group.

2010–2011 Organizer of the Portuguese language exchange group in Barcelona.

2007 Certificate in Massage Therapy, at Escola de Massatge Manual, Dr. Sagrera.