

Marc Garcia

CURRIULUM VITAE

Birth date: Nov 3rd, 1979

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Available to relocate and travel



*Data Scientist, expert in Python, machine learning, and finance.
Software developer and project manager. +10 years experience in the software industry.
Currently working as Data Scientist at Logitravel group.*

Experience

- Mar/2015– **Data Scientist, Logitravel group, Mallorca.**
- Nov/2015 Revenue optimization with metasearch engines for the hotel industry, using state-of-the-art machine learning and data mining technologies.
Technologies: Python, Pandas, Numpy, Bokeh, Mongo.
- Feb/2011– **Development leader, Nipon Telegraph and Telecom Corporation, NTT, Barcelona.**
- Jan/2012 Responsible for the development of software of the Application Management division.
Technologies: Python, Django, MySQL, Celery, XML RPC.
- May/2009– **Google Summer of Code Scholar, Django Software Foundation.**
- Aug/2009 Internalization improvements in Django.
Technologies: Python, Django.
- Mar/2005– **Contractor software developer, Barcelona.**
- Sept/2013 Project management and software developer.
Main projects:
 - **Unilever** Internal application for the ice cream brand sales force.
 - Technologies: Python, Django, PostgreSQL, JavaScript, JQuery, FileSystem API.
 - **Caixabank** Web application with information about museum activities.
 - URL: www.activitatseducativesfundaciolacaixa.es
 - Technologies: Python, Django, MySQL, JavaScript, JQuery.
- Mar/2003– **Software analyst, SBD Technologies (currently Alten), Barcelona.**
- Mar/2005 Responsible for the development of software projects for the banking industry.
Main projects:
 - **CAM** Integration software for banking applications Kondor+ and Panorama.
 - Technologies: C, Solaris, Visual Basic, MS SQL Server.
 - **Caixabank** Software to manage the publicity budget.
 - Technologies: Visual Basic, Oracle.
- Feb/2001– **Programmer and BI consultant, Azertia (currently Indra), Barcelona.**
- Feb/2003 Software developer and Business Intelligence consultant in different projects.
Main projects:
 - **Applus** Development of software for automotive inspection.
 - Technologies: Visual Basic, MS SQL Server.
 - **Government of Catalonia** Reporting system for statistical demographic data.
 - Technologies: Visual Basic, MS SQL Server, Cognos.
 - **Gas Natural** Development of reporting system.
 - Technologies: Cognos.

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.
Master thesis on pattern recognition in financial time series in progress.
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: TDD, OOP, Agile
Tools: Git, Trac, Subversion
- Data tools** Pandas/numpy, Matlab/Octave, R, Cognos
- Databases** SQL, PostgreSQL, MySQL, BigTable (NoSQL), MS SQL Server
- OS** Red Hat, Debian, Mac, Solaris, Microsoft Windows
- Misc** Django, Google App Engine, HTML/CSS, Networking

Talks

- 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.