Marc Garcia

CURRIULUM VITAE

http://datapythonista.github.io
Birth date: Nov 3rd, 1979
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Available to relocate and travel

Data Scientist, expert in Python, machine learning, and finance.

Experience

Mar/2015– Present
Contractor Data Scientist, *Quantitative Mining*, London / Mallorca.
Data science and data engineering services.
- **Bank of America** Data pipelines implementation using parallel computing.
  - Technologies: Python, Quartz.
- **Logitravel** Revenue optimization in digital marketing campaigns, using machine learning.
  - Technologies: Python, Pandas, Numpy, Sklearn, Bokeh, Mongo.

Feb/2011– Jan/2012
Development leader, *Nipon Telegraph and Telecom Corporation, NTT*, Barcelona.
Development of sysadmin tools to automate backups, monitoring, server maintenance, etc.
Maintanace of Information System for software and hardware inventory.
Reporting systems with monitoring, fault, and performance information.
Technologies: Python, Django, MySQL, Celery, XML RPC.

May/2009– Aug/2009
Google Summer of Code Scholar, *Django Software Fundation*.
Internalization improvements in Django.
Technologies: Python, Django.

Mar/2005– Sept/2013
Contractor software developer, Barcelona.
Development of ad-hoc software projects in Python.
- **Unilever** Application for hospitality section sales force.
  - Technologies: Python, Django, PostgreSQL, JavaScript, JQuery, FileSystem API.
- **Caixabank** Website to manage school visits to museums owned by the bank.
  - Technologies: Python, Django, MySQL, JavaScript, JQuery.

Mar/2003– Mar/2005
Software analyst, *SBD Technologies (currently Alten)*, Barcelona.
Responsible for the development of software projects for the banking industry.
- **CAM** Integration software for banking applications Kondor+ and Panorama.
  - Technologies: C, Solaris, Visual Basic, MS SQL Server.
- **Caixabank** Software to manage the bank publicity budget.
  - Technologies: Visual Basic, Oracle.

Feb/2001– Feb/2003
Programmer and BI consultant, *Azertia (currently Indra)*, Barcelona.
Software developer and Business Intelligence consultant in different projects.
- **Applus** Development of application for vehicle 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 for customer information.
  - Technologies: Cognos.

Education

Oct/2013–
Jun/2014
International Master in Finance,
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–
Jun/2015
Master in Artificial Intelligence,
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–
Jun/2011
Technical Engineering in Computer Science,
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**	Native	**Catalan**
Fluent	**English**	Fluent	**Portuguese**
Basic	**French**	Basic	**Chinese**

Computer skills

Programming	Expert: Python, JavaScript/JQuery Experience with: C, bash, PHP, VB/VBA, Java Methodologies: TDD, OOP, Agile, Scrum Tools: Git, Trac, Subversion
Data tools	Pandas/numpy/scipy/sklearn, Matlab/Octave, R, Cognos
Databases	Mongo, SQL, PostgreSQL, BigTable, MS SQL Server
OS	Red Hat, Debian, Mac, Solaris, Microsoft Windows
Misc	Django, Google App Engine, HTML/CSS, Computer networks

Talks

2016	Outreach Digital, London. Machine learning for digital advertising.
2016	PyData London. Machine learning for digital advertising.
2016	PyData Madrid. Understanding random forests.
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

2016	Organizer of the PyData Mallorca.
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.