Juan Quintana

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WORKING EXPERIENCE

· **Japan Meteorological Corporation** **Osaka, Japan**
Research and Development Department Manager: Meteorological Technician & Senior Developer *2015 – currently*

 – CFD models: WindSim, WAsP and Phoenics
 – Datamining to study patterns of apps use in Japan
 – Web data scraping and analysis of contamination spread
 – Analysis of weather application content and customer preferences in Japan
 – Setup Galion Doppler Lidar device
 – Wind Offshore exhibitor staff in WIND EXPO 2016
 – Development of environmental software

· **EREDA, Renewable Energy Solutions** **Madrid, Spain**
Research and Development Department Manager: Meteorological Technician & Senior Developer *2012 – 2015*

 – Solar and meteorological (WRF) modelling.
 – Data processing and statistical analysis software development.
 – Management, design, development, testing and server implementation of web application.
 – Technical and functional analysis of software projects.

· **Foundation for Research of Climate Change (FIC) and Meteogrid** **Madrid, Spain**
Meteorological Technician & Software Developer *2010 – 2012*

 – Use, development and validation of statistical downscaling technique for climate forecast.
 – Local and synoptic subjective weather conditions forecast in Spain.
 – Preparing weather and climatic reports in different places of the world.
 – Technical contributions in scientific poster.
 – Management and processing of massive datasets.

· **Spain Meteorological Agency (AEMET)** **Málaga, Spain**
Aeronautic meteorological observer *2010*

 – Government employee in Prediction and Monitoring Group of Andalucia, Spain.
 – Support of meteorologist and meteorological monitoring.

· **Spain Meteorological Agency (AEMET)** **Madrid, Spain**
Fellow graduate *2007 – 2009*

 – Project ENSEMBLES: "Application of dynamic techniques of downscaling for seasonal forecast".
 – European Centre for Medium-Range Weather Forecast (ECMWF) supercomputer use.
 – Working with numerical models for seasonal forecast.

· **CORITEL SA (Accenture Spain)** **Madrid, Spain**
Junior Programmer *2006 – 2007*

 – Lotus Notes environment: errors control, technical and functional analysis.

EDUCATION

· **College course in Satellite Remote Sensing : 800 hours** **Distance course**
Spanish Distance Learning College (UNED) *2009 – 2010*

· **Aeronautic meteorological observer course: 120 hours** **Madrid, Spain**
Spain Meteorological Agency (AEMET) *2009*

· **Training course in Junior Programmer: 320 hours** **Madrid, Spain**
Coritel SA (Accenture Spain) *2006*

· **Course: "Programming languages": 309 hours / C, C++y Visual C++** **Guadalajara, Spain**
CEI & Languages Academy *2005*

· **Degree in Physics: applied physics option** **Madrid, Spain**
Universidad Autónoma de Madrid (UAM) *1999 – 2004*

MAIN TECHNICAL SKILLS

· **Programming languages:** Fortran, Shell-Script, AWK, R, MatLab, Lotus Notes, C, C++, OpenMP, Visual C++, Visual Basic, Python, Numpy, Pandas, Scipy, Git, Java, Java-Script, jQuery, Angular JS, SQL, HTML, CSS, LaTeX, PHP, Apache
· **OS:** Linux (Ubuntu, Debian, CentOS, Redhat), Mac OS X, Windows
· **Languages:** ENGLISH - B1 TOEIC ∗ SPANISH - MOTHER LANGUAGE ∗ Studying Japanese

OBJECTIVE STATEMENTS

Begin a professional career in Japan ∗ Learn Japanese language ∗ Live in Japan for a long time.

ANNEX - EVOLUTION OF TECHNICAL KNOWLEDGE

· **Skills developed outside work**	**Currently**
– **Python**	*Advanced Level*

Algorithms development: data web parsing, data processing and analysis -> DATA MINING.
Frameworks Numpy, Pandas and Scipy use.
Web API for Python: Evernote, Twitter, Lindekin.
Python Web Framework: Bottle.

– R, MatLab   *Advanced Level*
Meteorological and climatic data mining and statistical analysis.

– LaTeX   *Medium Level*
Technical and personal templates/documents creation.

– PHP, HTML, CSS, Javascript   *Advanced Level*
Websites creation, maintenance and management. Data web parsing.

– LINUX / Shell-Script   *Advanced Level*
Scripts development to process and manage datasets.
Root account using of operative system based in Linux / Unix (Ubuntu, Debian, Mac OS X).

· **EREDA, Renewable Energy Solutions**   **2012 – currently**

– Project management and software development   *Medium Level*
Consultant in Windows 8 desktop app development project.
Technical and functional manager of web application development platform for visual and statistical data analysis made in Django framework.

– Hardware and software management of company   *Medium Level*
Linux web server installation and management.
Networks management and monitoring.
Computers and information systems management.

– Python, Object Oriented Programming   *Advanced Level*
Modeling, data proccesing.
Django project (backend) design and development.

– MySQL   *Advanced Level*
Management and data processing.
Django project (backend) development.
Data storage and backup systems development of company.

– HTML, CSS, Javascript, javascript frameworks: jQuery, Angular JS   *Medium-Advanced Level*
Django project (client side) design and development.

– C++ , Object Oriented Programming   *Medium-Advanced Level*
Data processing scripts development written in Object Oriented Programming and in parallel execution programming with OpenMP.
Development of solar production algorithm using Object Oriented Programming and own libraries.

– LINUX / Shell-Script   *Advanced Level*
Data processing scripts and jobs development. Ubuntu OS user with root account.

– R y Matlab   *Advanced Level*
Modeling, data statistical analysis and plotting in R environment.

– CDO, XConv, GRIBEX, Ferret, etc   *Medium Level*
Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).

– FORTRAN   *Advanced Level*
Modeling and data processing.

· **Foundation for Research of Climate Change (abbreviation into spanish, FIC) and Meteogrid**   **2010 – 2012**

- **FORTRAN** *Advanced Level*
  Modeling with statistical algorithm, heavy computations and data processing.
- **LINUX / Shell-Script** *Medium Level*
  Data processing scripts and jobs development. Ubuntu OS user with root account.
- **R** *Basic Level*
  Modeling, data statistical analysis and plotting in R environment.
- **Python** *Basic Level*
  Data processing and web parsing.
- **CDO, GRIBEX, Ferret, etc** *Basic Level*
  Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).

· **Agencia Estatal de Meteorología (AEMET)** **2007 – 2009**

- **FORTRAN** *Medium-Advanced Level*
  Modeling with dynamical algorithm, heavy computations and data processing.
- **LINUX / Shell-Script y AWK** *Medium Level*
  Data processing scripts and remote jobs development. RedHat OS user with root account.
- **Metview, CDO, GRIBEX, Ferret, etc** *Basic Level*
  Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).

· **CORITEL SA (Accenture Spain)** **2006 – 2007**

- **LOTUS NOTES** *Medium-Advanced Level*
  Maintenance and development: errors control, software and databases technical and functional analysis.
- **Java (Education)** *Basic Level*
  Java education during 3 weeks in company: basic Object Oriented Programming and background running by *pipes*.
- **JavaScript, HTML, SQL, ASP (Education)** *Basic Level*
  Basic education during 2 weeks in company.
- **Visual Basic (Education)** *Basic Level*
  Education during 1 month and practise programming a Windows desktop application with web interaction.

· **EDUCATION: Course "Programming languages"** **2005**

- **C, C++y Visual C++(Education)** *Basic-Medium Level*
  Course during 309 hours and practise programming a Windows desktop financial management software.