

Eng. Aníbal Pacheco Tognola

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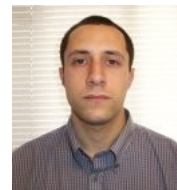
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Education:

1998 ~ 2005. Software Engineering - Universidad de la República – College of Engineering.

Thesis:

PGFICOAL Project: Software tool for filtering and correlating alarms (traps) inside a telecommunication network through Artificial Intelligence techniques like Neural Networks and Ruled Based Systems, under a SNMP administration protocol. The communication between SNMP agents and software (created in Java and C++) is possible through CORBA, an architectural standard design to develop applications in distributed environments.

Languages:

English:	Read (Excellent), Write (Good), Speak (Good)
Portuguese:	Read (Excellent), Write (Good), Speak (Excellent)
Spanish:	Mother tongue

Professional Interests:

- Free Software, free software migrations to.
- Linux Systems Administrations.
- Geographic Information Systems.
- Data Base design.
- Computer Science theory.
- Functional programming.
- Software Management, Analysis, Design and Development with free and modern technologies.
- Networks, Distributed Systems, Interoperability.
- Screen Scraping.
- Teaching and Investigation.

Professional Experience:

2009:

- [ServInfo](#): Staff member, working on development and network solutions projects.
- [Visual E](#): Consulting, developing financial calculators for the web2.0, HTML & JavaScript using [jQuery](#).

2007 ~ 08: [insophia](#)

- Staff Member. Start-up technology company located in Uruguay, which specializes in Python development and Linux system administration, computer networking solutions, Internet protocols and Technologies, Web application design, implementation and development and Open source software solutions and consultancy. Worked on the development of [Scrapy](#), an Open Source Screen Scraping framework written in Python. Actually, member of the Scrapy development team.
- [Mydeco.com](#): Screen Scraping team member (Python developer), Screen Scraping team Manager, Release Manager.

Since 2007:

- [elero latinoamérica](#): Server administrator, development of an adaptation of VtigerCRM to the company needs.
- Casa Bertolt Brecht: Design and maintenance of this organization's web site under Joomla!: www.casabertoltbrecht.org.uy

Since 2008: Many personal software projects.

2007: Geographic Information Systems teacher at [Taller de Informatica](#) Institute.

2006 ~ 2007: Teacher at Instituto [BIOS](#) – in the courses:

- **3rd year of Software Analyst career:**

[6 hs. week.] Is the last year of this [career](#) where the study topics are: Linux, Software engineering and Java development.

- **PHP – MySQL Developer:**

[2 groups 4 hs. week each] This [course](#) focus on web development with php and an introduction to Database theory and management of MySQL Database engine.

2003 ~ 2007: National Environment Direction for the Ministry of Housing, Territorial planning and the Environment ([DINAMA](#) / [MVOTMA](#)):

- Senior Consultant on Information Technologies for the Project “Sistema de Información sobre Sustancias Químicas” (SISQ, Information System on Chemical Substances).
- DINAMA / MVOTMA – UNDP: National Implementation Plan (NIP) of the Stockholm Convention: Leader of the development team and administrator of the informatics sub projects including: programming and uploading of the project's web site (entirely on PHP) www.nip.gub.uy ; design implementation and uploading of a laboratory database (developed in PostgreSQL, automatically fed with word documents). www.nip.gub.uy/basedatos/laboratorios. This database was the origin of the Uruguayan Environmental Laboratories Network (rlau): www.dinama.gub.uy/rlau

- (2004) SISICA Project/ Jica (<http://sisica.dinama.gub.uy>):

Development of an inter-organizational system of water quality information for Santa Lucía river basin within the frame of the Jica Project (International Japanese Cooperation Agency). The SISICA project is an entirely open source developed system, with a PostgreSQL database, PHP web interfaces that accesses as a Geographical Information System (GIS) to a PostGis database through MapServer (php Mapsript) to show an analysis of geographical characteristics of the water quality data of that area.

- (2003) United Nations Development Program (UNDP): Technical staff in the informatics area of DINAMA - National Environment Direction of the Ministry of Housing, Territorial planning and the Environment DINAMA / MVOTMA.

Projects held:

Sworn statement of effluents

Database for the registry of the sworn statement of effluents. PostgreSQL database system with web integrated interfaces developed in PHP, HTML and JavaScript.

Process model for the development of Integrated Databases Systems with web Interfaces in DINAMA

Creation of a process model for the of databases with web interfaces for its administration and work by users.

Database of Environmental Impact

Database System implementing PostgreSQL with web interfaces (PHP, HTML and JavaScript) and with automatic feeding via word-programmed with Visual Basic for applications.

Web site integration

Integration of a reduced version of the databases available for Sworn Statements and Environmental Impact Evaluation to be viewed at the DINAMA web site. PHP pages with PostgreSQL database connection.

Redesign of the presentation of the DINAMA web site

Redesign of the graphic design characteristics and interfaces. PHP, HTML and JavaScript programming, as well as maintenance and actualization of a database of the site itself developed in MySQL.

Conferences & Talks:

AUG/08	Python & web 2.0 – Colege of Engenieering, Universidad de la República (talk: link)
ABR/08	fisl 9.0 – 9º Fórum Internacional Software Livre PUCRS – Porto Alegre – RS – Brasil
AGO/07	7JRS – 7as Jornadas Regionales de Software Libre Universidad Nacional de Córdoba – Córdoba – Argentina (talk: link)
ABR/07	fisl 8.0 – 8º Fórum Internacional Software Livre FIERGS – Porto Alegre – RS – Brasil
NOV/06	CaFeConf – 5tas. Conferencias Abiertas de GNU/Linux y Software Libre UADE – Buenos Aires, Capital Federal – Argentina

Skills:

Operating Systems:

- Linux / UNIX
- Windows
- DOS

Hardware & maintenance:

- Equipment build up / Hardware
- Maintenance of equipments and networks
- Software installation

Servers and Networks:

- Linux server management with focus on debian/GNU, server administration databases PostgreSQL y MySQL, web apache/apache2 server and the connectivity requirements.
- Free e-mail servers POP3 & IMAP (solidpop3 & Cyrus): installation and configuration for the interoperability with Exim4 and the antivirus and antispam free tools (clamav & spamassassin respectively).
- Installation and configuration of the servers Samba, HTTP Proxy (squid), NIS, NFS, DNS, rsync, CUPS. All open source under debian GNU/Linux.
- Installation of Firewalls under Linux to protect the internal networks from internet attacks and restricted access of the internal network users upon request.
- Installation and configuration of Virtual Private Networks (VPN) using the open source software OpenVPN
- Configuration of NAT and the routing of a Linux equipment to use multiple gateways (i.e. more than one Internet connection with different band widths available)

Development:

- [Python](#)
- Web development with Python & django framework.
- Project management
- C / C++
- [Java](#) / JSP
- HTML / JavaScript / Ajax
- [PHP](#)
- Visual Basic / Visual Basic for Applications
- Pascal / ADA / Modula2
- Haskell
- Basic skills in [Perl](#) & [Ruby](#)

Databases:

- Development of integrated databases with PHP, C, HTML, Java
- Database design and implementation on PostgreSQL y MySQL
- Language control of SQL and PLSQL queries
- Database storage of geographical information using Postgis, a free addition for PostgreSQL

Computer Graphics and Graphics Design:

- Modeling of synthetic-realistic images with POV-RAY
- Management of first and second level graphic libraries as Java Graphics y Java Graphics 2D, Postscript, Xlib

Information Systems:

Knowledge involving design process and information system development, integrated web pages and databases systems.

Geographic Information Systems:

- Geographic databases PostGIS administration, a free addition for PostgreSQL that reaches the Open Geospatial Consortium
- Mapserver: compilation, installation and development of php-mapscript applications, with access to data PostGIS sources and the use of Chameleon (free library for viewing on-line maps) Java development, using the free library GeoTools for the implementation of Geographical Information systems with access to diverse data sources as shapefiles, coverages, rasters, databases PostGIS.
- Knowledge on the design process and development of Geographical Information System.
- Knowledge on ArcView and ArcInfo (ESRI), Visual Basic programming using MapObjects (ESRI) for the GIS construction.
- QGIS user, a free tool similar to ArcView that stands the connection to PostGIS databases and the export of a project to a “.map” for Mapserver

Content Management Systems (CMS):

Installation and management of [Wordpress](#), [Joomla](#), [Mambo](#) y [Postnuke](#)

Others:

- Framework [Horde](#): Installation, administration and configuration for the usage of Imp webmail.
- [Firewall Builder](#)
- [OpenOffice.org](#)
- [PEAR](#) libraries for php (HTML_QuickForm, DB, DB_DataObjects and DB_DataObjects_FormBuilder).
- [PHPLayersMenu](#) System Library
- [Ht://Dig](#): Installation and configuration (used in [www.nip.gub.uy](#).)
- IDE [Eclipse](#): Diary usage for programming in php, Java and C++
- The [Gimp](#): Basic user (image creating and editing tool)
- Trac, mercurial, subversion

References:

Work:

- Eng. Pablo Hoffman ([www.pablohoffman.com](#)) – Insophia.
- Eng. Daniel Vignale, Eng. Marisol Mallo, Eng. Quím. Jacqueline Álvarez – DINAMA.
- [Miguel Puente](#) by [Instituto BIOS](#) – Escuela de Sistemas.
- Pablo Pena Vergara – Elero.

Personal:

- Eng. Claro Taroco – (ctaroco@gmail.com)
- Eng. Gustavo Signorele – (gsignorele@gmail.com)