



Pedro Valdivieso

Curriculum vitae

"Stay hungry. Stay foolish" - Steve Jobs

Education

- 2010–2015 **Computer Science**, *Universidad Central de Venezuela*, Caracas.
Mention: Parallel and Distributed Systems.
I was an assistant teacher of web technology's courses for 2 years and a half.
My thesis titled "Expansión de la distribución Linux para Ciencia de Datos Live-Hadoop" got an honorific award from the Science Faculty.
- 2005–2010 **Senior High School Degree**, *Colegio Educativo Montalban*, Caracas.

Bachelor's thesis

- title *Expansión de la distribución Linux para Ciencia de Datos Live-Hadoop*.
- supervisors Prof. Jesús Lares, Prof. José Sosa.
- description Development of a Linux distribution based on Slax implementing several elements of the Apache Hadoop ecosystem with the objective of solving Big Data based problems and teaching Data Science at the university.
- Link to thesis <https://goo.gl/dbXrs2>

Experience

Vocational

- September 2018–Present **Cloud Support Associate**, *Amazon Web Services*, Dublin.
- Help AWS business customers by integrating and architecting with AWS services. With a strong focus on: AWS Amplify (Console, CLI and SDKs), Lambda, IoT (Core, GreenGrass and FreeRTOS), API Gateway, AppSync and Cognito.
 - React.js to develop internal tools for the IoT service with the focus of optimising internal processes.
 - Provide internal training on services to growth the knowledge of the team.
 - Mentor new hires with the objective of helping them adapt and adjust to Amazon standards.

Dublin – Ireland

☎ +353 (87) 705 5488 • ✉ pedro.valdivieso@gmail.com

📄 <https://github.com/Gringox>

<https://ve.linkedin.com/in/pedrovaldi>

- April **iOS Developer Analyst, Bellbank, Santo Domingo.**
- 2016–July Currently in development of Bellchat, a chat application build using Swift 3.
- 2018 Development of Bellbanking, a Internet banking iOS native app build with both Objective-C and Swift.
- Development of an iOS and OS X VoIP clients using the open source project Linphone.
- Usage of Xcode IDE, Objective-C and Swift programming languages and the Cocoa API.
 - Usage of Google's Firebase for push notification integration in Bellchat.
 - Integration to Bellbanking of the finest features for iOS devices and apps including:
 - Login with Touch ID.
 - Peek and pop for elements.
 - Quick action buttons from home screen.
 - Core Data framework for local storage.
 - Experience generating application bundles for Mac OS X (.app) from a GTK+ executable using the Gtk Mac Bundler tool.
 - Usage of both Homebrew and MacPorts as packages managers for Linphone dependencies installation.
- November **iOS Developer Analyst, Wuelto, Caracas.**
- 2015–March Development of the Wuelto iOS native app and developer of backend web REST based APIs.
- 2016
- Usage of Xcode IDE, Objective-C programming language and Cocoa API.
 - Manage and configuration of Sphinx search engine.
 - Development in PHP with CakePHP framework.
 - Usage of the scrum methodology for development.
 - Usage of the git branching model by Vincent Driessen called git-flow.
- January 2015– **Junior II Programmer, InWork Solutions, Caracas.**
- November Full stack programmer and system administrator. Usage of the scrum methodology for development.
- 2015
- Web Developer:
 - Developer of backend web REST based APIs.
 - Usage of Node.js with Express.js framework and Bookshelf.js ORM.
 - Configuration and administration of MySQL, PostgreSQL and MongoDB for the REST based APIs with Node.js.
 - Mobile Developer:
 - Developer of hybrid mobile applications for iOS and Android using Appcelerator Titanium.
 - Usage of the Appcelerator Alloy MVC framework.
 - Usage of Titanium Style Sheets.
 - System Administrator:
 - Monitoring, deploy and maintenance of OpenVZ containers in the main server, running a Proxmox Debian-like Linux operating system.
 - Management of a Postfix mail server with basic setup including Dovecot and Rain Loop/Round Cube as email clients.
 - Setup and maintenance of a DNS server using the open source implementation BIND.
 - Management of a set of virtual hosts in proxy servers using both Apache and Nginx.
 - Deploy of applications (Node.js) on Apache and Nginx integrated with Phusion Passenger.
 - Administration of several database management systems including: MySQL, PostgreSQL and MongoDB.

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- November 2013–August 2015 **Assistant Teacher**, *Universidad Central de Venezuela, Caracas*.
 Internet-based Applications I and II Assistant Teacher: teaching of client-server technologies, HTTP, HTML, CSS, JavaScript, jQuery, CGI, Perl, Python, Ruby, Java (JDBC, JSP), AngularJS, NodeJS. Laboratory activities and documentation development.
- Development of Ruby on Rails based API for the teaching of AJAX technologies and Ruby. Usage of Ruby on Rails Web Framework, ActiveRecord ORM, Ruby on Rails controllers and Ruby in general.
 - Development of Python Flask application for Python web development introduction and teaching. Usage of Python Flask, Jinja2 and Psycopg2.
 - Development of Ruby Sinatra MVC based applications for the teaching of REST architectures. Usage of Ruby Sinatra, ERB and Data Mapper ORM.
 - Development of AngularJS application for Javascript web development introduction and teaching. Usage of AngularJS controllers, AngularJS routing and HTML5 Local Storage Module.
 - Development of Swift (iOS) client application that consumes a Ruby Sinatra based API for an advance operating system presentation. Usage of Swift programming language and Xcode IDE 6.1.
- March 2013–November 2013 **System Administrator**, *Universidad Central de Venezuela, Caracas*.
 System Administrator of the Centro de Investigación en Comunicación y Redes (CICORE) in the Science Faculty.
- Monitoring, deploy and maintenance of the center main web server, linux based.
 - Management and deploy of applications (mostly PHP) on Apache using several modules varying from proxy, ssl, rewrite, among others.
 - Management and configuration of FTP, DNS and Debian / Ubuntu repositories servers under Debian environment.
 - Database administration on MySQL for multiple applications hosted on the center main web server.

Languages

Spanish **Native**

English **Full professional proficiency** *English course at EF (Education First) New York, 2009.*

Programming Languages

- Swift
- Objective-C
- JavaScript
- C/C++
- Ruby
- Python
- R
- Java
- PHP
- Shell
- Bash
- SQL

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iOS Development Essentials

- CocoaPods as dependency management for Objective-C and Swift Cocoa modules
- Xcode and App Store Connect to upload apps to the App Store
- Clean Architecture for iOS apps with VIPER

Database Management System

- MongoDB
- Elasticsearch
- PostgreSQL
- MySQL
- MariaDB
- HBase

Style, Markup and Notation Languages

- CSS3
- JSON
- HTML5
- XML
- YAML

Operating Systems

- Multiple Linux Distros (Mainly Debian)
- Mac OS X

Frameworks and Web Tools

- React Native
- React.js
- Ruby on Rails
- Appcelerator Titanium and Alloy
- ExpressJS
- Sinatra
- Python Flask
- jQuery
- Twitter Bootstrap
- AngularJS

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Tools

- Deployment and maintenance of linux based tools
- Iptables advance configuration, chaining rules, creating NAT networks, redirects, SSH port knocking and many others
- HTTP server: Nginx and Apache (advanced configuration with memory caching, mod php, mod perl, mod rewrite, mod proxy, mod ssl and many others)
- Sphinxsearch
- Tomcat
- Xcode
- Appcelerator Studio
- Version management using git
- Usage of the bug tracking, issue tracking and project management software Jira

Methodologies

- Scrum
- XP
- Git-flow

Development Paradigms and Philosophies

- Resource Oriented Architectures
- Object Oriented Programming
- Functional Programming

Interests

- Big Data
- Data Science
- Mobile Development
- Semantic Web
- Open Source Movement
- Operating Systems

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