

Derek Demuro

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www.derekdemuro.com

ln.derekdemuro.com

github.com/ddemuro

git.derekdemuro.com

PERSONAL PROFILE

Focused in the information technology field, developer for 11 years, entrepreneur for 5 years and consultant in various fields for 4 years. Wide range of programming languages, from C/C++, C#, Java, Python, PHP and most RDBMS (Oracle TSQL, PLSQL), built a small data center of 92 servers, helped with the design of the UPS's and Network.

Always looking for new technologies, contributing to new projects and passionate about personal projects. From writing file systems, to website development.

CAREER HISTORY

Sr. Software Engineer (United States)

Axcient Inc. - www.axcient.com

March 2017 - Today

Duties:

- Continued development of a FUSE File System for BDR (Backup Disaster Recovery) that automatically transforms non-bootable device snapshots in exact drive images from the original machine (C++).
- Rewrote the system network layer in python, added support for VLAN, Bridged and Bonded interfaces.
- Provided highest level of support to customers assessing and managing data loss and data recovery options. (ZFS and Data recovery expert).
- Managed the security of the BDR units working with the CSO, deploying firewalls and managing them.
- Identified and fixed various security issues within the application, regarding command injection, package upgrades, others.
- Added support for Secure Boot in virtualization environment through TianoCore (EDKII) and a custom image to load Windows signatures. With custom BIOS modifications adding compatibility to different versions of windows.
- Continued development on frontend and backend of Replibit.
- Continued development on the backend of the system (Python / C++).

Senior Software Engineer (Remote - Consultant)

Replibit – www.replibit.com

March 2015 – August 2016

Duties:

- Continued development of a FUSE File System for BDR (Backup Disaster Recovery) that automatically transforms non-bootable device snapshots in exact drive images from the original machine (C++).
- Worked on frontend and backend of the application based on Flask, Twisted, Nginx and Python.
- Provided highest level of support to customers assessing data loss and data recovery options.
- Code reviewed the system, while security assessed the application to solve security issues.
- Provided technical consultation for all departments.
- Assisted on team member's recruitment.
- Overview ZFS issues, data loss, and data migration.
- Created a UEFI Agent Service to allow virtualization on new systems.

Software Engineer (Uruguay)

Sophilabs – www.sophilabs.co

March 2015 – January 2016

Duties:

- Directly communicated with various clients of the company assisting in different projects regarding support and system design.
- Developed a FUSE File System for BDR (Backup Disaster Recovery) adding support to GPT volumes (GUID Partition Table) to overcome 2 TB limitation of MBR on the fly.
- Worked on frontend and backend of the application based on Flask, Twisted, Nginx and Python.
- Provided highest level of support to customers assessing data loss and data recovery options.
- Code reviewed the system, while security assessed the application to solve security issues.
- General consultant for other Sophilabs teams in infrastructure, design and performance analysis.
- Assisted recruitment and sales department.
- Briefly helped maintain a Django website.
- Assisted in JSConf <http://2015.jsconf.uy>

Chief Technical Officer (Uruguay)

TakeLAN Uruguay

December 2015 – August 2015.

Chief Executive Officer

TakeLAN Uruguay

November 2011 – December 2015.

(Previous work history has been omitted, please request it to mail@derekdemuro.com)

KEY COMPETENCIES AND SKILLS**PROFESSIONAL SKILLS**

- Python and python frameworks Django and Flask.
- PHP and various frameworks Phalcon, Yii and Laravel.
- Java, Java EE, Java SE and Spring MVC.
- C++ / C in Windows and Linux (GCC with GDB and Valgrind).
- Bash scripting.
- JavaScript.
- Oracle SQL, MS SQL, PostgreSQL and MySQL.
- MongoDB and Redis.
- Networking (Wired [Cat 5e and 6] / Wireless)
- Networking platforms Cisco, PfSense and Mikrotik
- Resource and process optimization experience.

PERSONAL SKILLS

- Experience working in dynamic environments changing roles frequently.
- Agile development focused, experience as scrum master.
- Comfortable working directly with customers and other companies.
- Experience in recruitment process.
- Detailed and passionate about the task at hand.
- Training and speech experience.
- Experience as supervisor.

ACADEMIC QUALIFICATIONS

ORT University Uruguay

March 2009 – June 2013

Career: Bachelor in computer science.

- Undergraduate pending exams and last year.

ORT University Uruguay

June 2013 – July 2016 (Expected)

Information Technology Analyst

Thesis in MPLS replacement by VPN – ANR (Automatic network re-mapping).

- Undergraduate relocated to the US before final project.

BIOS Institute:

2007 March – 2008 December:

C++ / C / Visual C++ and TSQL Developer certification & course.

Final project: High performance web and database abstraction layer framework.

ACDE - ISEDE

June 2010

Strategic Map [Franklin Covey]

ORT University Uruguay

2005

Windows Operating System / Office Operator examination.

High School Major:

1st year: Economy – Math.

2nd year: Law.