

# Derek Demuro

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## PERSONAL PROFILE

Focused on the Information Technology field, developer for 14 years, entrepreneur for 5 years and consultant in various fields for 5 years. Wide range of programming languages, from C/C++, C#, Java, Python, PHP and most RDBMS (Oracle TSQL, PLSQL), built a small data centre of 92 servers, and 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; I enjoy it all.

## CAREER HISTORY

### **Chief Technology Officer – Board advisor member. (United States - Uruguay) [Part time]**

*Armor Bionics Inc. – [www.armorbionics.com](http://www.armorbionics.com)*

*March 2017 - Today*

As advisor I provide the executive team with improved solutions and alternatives to align their budget with their technological requirements.

*March 2018 - Today*

As current part time CTO I continue my advisory process but I'm also in charge of their current adoption of new technologies, new hires and making sure development is aligned with company goals.

### **Sr. Software Engineer – Escalation Manager (United States)**

*Axcient Inc. - [www.axcient.com](http://www.axcient.com)*

*March 2018 - Today*

My main role as escalation manager has been to continue my previous tasks as Sr. Software Engineer while assisting team members in aligning daily tasks with priority situations. I am responsible for making sure critical partners receive immediate and in the moment solutions along with solving non-development issues partners had.

### **Sr. Software Engineer (United States)**

*Axcient Inc. - [www.axcient.com](http://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, and 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++).

### **Sr. Software Engineer (Remote - Consultant)**

Replibit – [www.replibit.com](http://www.replibit.com)

March 2015 – August 2016

Duties:

- 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 application, 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.

### **Sr. Software Engineer (Uruguay)**

Sophilabs – [www.sophilabs.co](http://www.sophilabs.co)

March 2015 – January 2016

### **Chief Technical Officer (Uruguay)**

TakeLAN Uruguay

December 2015 – August 2015.

### **Chief Executive Officer (Uruguay)**

TakeLAN Uruguay

November 2011 – December 2015.

## 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 platforms PfSense and Mikrotik
- Resource and process optimization experience.
- Customer relationship management.
- Systems Architecture.
- FX Trading.

### **PERSONAL SKILLS**

- Experience working in dynamic environments changing roles frequently.
- 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

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 2017

Strategic Map (Franklin Covey)

### **ORT University Uruguay**

2005

Windows Operating System / Office Operator examination.

### **High School Major:**

1<sup>st</sup> year: Economy – Math.

2<sup>nd</sup> year: Law.

## REFERENCES

### **Andrew G. Bensinger (Replibit CEO)**

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### **John Hardwick (NXIO President)**

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