

Gabriel Ramirez *April 9, 1983*

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Summary

Creative and business-savvy designer of solutions. More than 10 years of expertise across a range of challenges in several business sectors. Ability to combine vision and ingenuity in order to provide a future-proof answer to any problem. Proven leadership capacity. *Areas of expertise include:*

- Software architecture and engineering.
 - Full-stack software development.
 - Agile software development.
 - IaaS technologies.
 - CD/CI tools.
 - Electrical and electronics engineering.
 - Hardware and embedded software design.
 - Data center infrastructure design.
 - Network design.
 - Leadership.
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Experience

Software Natura

ASUNCION, PARAGUAY

Recruited in principle for the experience in Software Architecture and Engineering for establishing a QA policy in the process of software development of a legacy stack, now currently co-leading a team of 8 in order to put in production a microservice architecture for a client requesting an ERP and E-commerce system.

Software Engineer

Feb '17 – present

Key Contributions:

- **Re-definition of the stack for internal apps.** Due to the changing environment and requests by the main dev team of the client company, microservices and REST services were phased out and a more traditional monolith approach is currently being used, in conjunction with template engines.
- **Updating of an old app to observe tax regulation changes.** By inserting Spring-capable services to the old app in order to use the new services available that observe the change in regulations. The strong time constrain of this update was achieved nonetheless.
- **Definition of the stack to be used during code development.** By using Spring Framework and Netflix OSS, complete REST services are developed by the team.
- **Definition of the ops stack to be used to manage servers and services.** Currently using Apache Tomcat and Spring Boot web app files. The use of Docker and Kubernetes is under test to help in the CD process.
- **Definition of the CD pipeline.** The pipeline now uses only a code repository and with Jenkins, it pushes a new build to the test server, after some basic testing and static code analysis provided by Sonarqube.

QA Engineer

May '16 – Jan '17

Key Contributions:

- **Establishing the use of gitflow as the process of code repository management.** Since there was no system before, it was a hard challenge to teach every developer the full powers of git.
- **Establishing the new modules/layering system of the code.** It was done so it would help writing the before non-existent unit- and integration-tests. End-to-end tests were left to the future, although some smoke tests were written.

Santco SRL

ASUNCION, PARAGUAY

Being a new venture that was moving into providing software products to its clients, the company needed experienced developers in order to help junior developers.

Software Engineer & Team Lead

Nov '14 – Mar '16

Key Contributions:

- **Implementing Agile software development by using the Scrum framework.** Since it was a new venture and having all junior developers, the implementation of the framework was not complicated.
- **Establishing the entire technology stack for the company.** Since all the developers had more knowledge of PHP, CakePHP was used with its particular development style. Also, Google Cloud was used as the IaaS provider.

Technoma SACI

ASUNCION, PARAGUAY

Founding member of the company, the original idea was to provide the latest technology to the clients in the solutions handled to them.

Field Engineer

Mar '10 – Jul '12

Key Contributions:

- **Defining the technology used for the development of solutions outside the network services.** As the initial clients requested a particular brand for networking solutions, the supporting software for the solutions were manufactured in-house by the use of open source tools like cacti, nagios, and others.
- **Establishing Monitoring-as-a-Service as a business for the company.** Since the company was tied to the hardware that the clients requested, the supporting software was sold as a service to get funding for other ventures.

CBA SA

ASUNCION, PARAGUAY

A well established company providing SaaS in localized servers, needed some expertise to move into server virtualization and resources allocation

Technology Consultant

Mar '11 – Oct '11

Key Contributions:

- **Establishing the virtualization and resource allocation stack.** By the use of Citrix XenServer, the virtualization and allocation of resources were possible.

Paraguayan Ministry of Interior

ASUNCION, PARAGUAY

Recruited to help in the design for the Center of Security and Emergencies for the National Police force.

Technology Consultant

Mar '10 – Mar '11

Key Contributions:

- **Design of the physical infrastructure of the network and data centers.** Built a resilient optical network able to sustain the transmission and storage in real time of video data.
- **Evaluation of the winner of the contract for the public bidding of the project.**

Catholic University of Asuncion

ASUNCION, PARAGUAY

Hired after passing a heavy test, in the beginning because my Electrical Engineering studies matched the necessities of the University. After obtaining the undergraduate degree, moved to the Electronics research lab.

Junior Researcher

Oct '07 – Apr '10

Key Contributions:

- **Definition of the hardware to be used by the “CompuBus” team.** By the use of microcontrollers and small-factor computers, embedded software developed in C and C++, and also some software in C that communicated with the Linux kernel.

IT Manager

Oct '05 – Oct '07

Key Contributions:

- **Automating the process of server maintenance.** By using mostly Bash and Python scripts.
- **Helping in the maintenance of the physical structure of the campus network and computer labs.**

Please refer to my [Linkedin profile](#) for the complete list of work experiences along with recommendations.

Education

University of Leuven

LEUVEN, BELGIUM

Masters degree in Nanoscience and Nanotechnology

2012 – 2014

Area of interest: Bionanotechnology.

Catholic University of Asuncion

ASUNCION, PARAGUAY

Electrical Engineering (discontinued)

2007 – 2010

Bachelors in Electrical Engineering

2002 – 2006

Skills

Technical specialties: Software design and implementation, with(in) a team. Commodore Basic, C, C++, Java, JavaScript, Python, were my first languages (yes, you read that right... that's “Commodore 64 Basic”). Solid knowledge of back-end web technologies, particularly X/YML, JSON, REST. Only basic knowledge of web front-end (jQuery, Angular, React). Linux administration skills: bash, NGINX, Apache, Tomcat, Glassfish, Payara, MySQL, PostgreSQL, SQLServer, cloud (AWS, Azure, Google Cloud), data center automation (Terraform), continuous integration (Jenkins), and containerization (Docker).

Natural languages: Spanish (*native language*), English (*full professional proficiency*), German (*limited working proficiency*), French (*elementary proficiency*).