

# 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.
  - Datacenter 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 inexistent 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 datacenters.** 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.*

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## 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

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## 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), datacenter automation (Terraform), continuous integration (Jenkins), and containerization (Docker).

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