

# LUIS MAXIMILIANO RODRIGO ZUBIETA

**Date of birth** July 25, 1985  
**Nationality** Argentina / Spain  
**Languages** Spanish / English  
**Email** [contact@maxrodrigo.com](mailto:contact@maxrodrigo.com)  
**Website** [www.maxrodrigo.com](http://www.maxrodrigo.com)  
**LinkedIn** [/in/maxrodrigo/](https://in.linkedin.com/in/maxrodrigo/)  
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## SUMMARY

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I'm a passionate software engineer with broad experience in software development and system administration. Over the past eighteen years, I've been a software engineer, a teacher, a consultant, and a team lead. I've done developing and consulting for top companies, hospitals, and universities. Although Python is my current language of choice, I also have significant experience with C, PHP, and Javascript. I also have a strong background in system administration, cloud architecture, and security. I'm a self-disciplined, fast learner, and a true believer that everything can be done.

## TECHNICAL STRENGTHS

- Cloud Architecture, Serverless Architecture, High Availability, Scalability.
- System Administration
- Backend development / Web Applications
  - Development and Design of RESTful APIs.
  - SQL databases.
  - Containerization ( LXC / Docker )
- Database Administration
  - SQL - (PostgreSQL, MySQL, SQLite)
  - NoSQL - (Cassandra, MongoDB)
  - Troubleshooting and optimization.
  - Configure and monitor data replications.

- Python
  - Data acquisition and analysis, multi-processing, High Performance.
  - Command-line applications development.
  - Django, Flask, Falcon, SQLAlchemy, Jupyter.
- PHP
  - Design and optimization for high traffic websites.
  - Zend / Symfony / Slim / Laravel

## PROFESSIONAL EXPERIENCE

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### Cloud Architect / Backend Engineer

LoveToKnowMedia Spain - Yourdictionary.com

(September 2017 - )

Python Backend Engineer and Cloud Architecture. Serverless applications, process automation, and team and product scalability.

- Backend Development and Architecture
  - Migrate a cross-product monolithic architecture to a serverless architecture over AWS.
  - Deploy dozens of REST API endpoints with AWS Lambda and a variety of AWS services.
  - Create a cross-product server side serverless A/B Testing.
  - Test and benchmarking of deployments libraries as Zappa, Serverless, Chalice, etc.
  - Setup and maintenance of AWS services.
- Teams and processes restructuring
- Design of style and contribution guides and collaboration processes.
- Design and implementation of Testing, C/D and C/I processes.
- Migration and centralization of the company code bases on GitHub.
- Facilitate engineering processes for POs and Scrum masters.
- Set a coding philosophy of clean coding, refactoring and peer reviews.
- Custom tools for Automatic deployments, tagging, integration, cleanups, etc.
- Others
  - Interviewing and recruitment for the engineering dept.
  - Monitoring tools.
  - Create personal and helped on Tech Teams OKRs.

## **Technical Lead**

Searches

(March 2014 - February 2017)

- Re engineering of legacy Affiliate Program Software used by more than 3+ million affiliates.
- Database Administration - High Availability, Load Balancing, and Replication of massive databases mostly MySQL and PostgreSQL.
- Coding and optimization of report scripts and queries. Developed responsive, interactive visualizations using D3.js
- CNP Processing (Card-not-Present Transactions) - Merchant accounts integration. Charge-back Forecasting & Analysis with Python.
- PHP - Migration, maintenance and optimization on more than 100 websites using Zend, vBulletin, phpBB, Wordpress, Joomla, TGPs and custom scripts.
- Python - Re-coding and re-implementation of legacy code in PHP, Pascal and C. Data Analysis, Marketing Automation, Billing Software, CMS development.

## **Co-Founder - CTO**

Nerddogs.com

(October 2007 - July 2012)

- Migration and hardening of massive websites.
- Infrastructure design.
- Application benchmarking.
- Designed and coded command line scripts for most of our common tasks.
- Full stack development:
  - Wordpress plugins and themes.
  - Web scrapers / crawlers.
  - Twitter / Facebook bots.

## **Developer - Server Architecture**

Leechpack

(July 2009 - May 2010)

Leechpack was a SaaS that allowed users to download files from Torrent or File Sharing websites to the cloud. Once on the platform, files could be downloaded to the local drive or streamed directly to their browser.

- Full stack development of the File Sharing System.
- Development of the downloader software for File Sharing websites: Rapidshare, Depositfile, Uploadbox, Megaupload, Bigandfree, Netload, Storage.to, Hotfile, Uploaded.to and many more.

- Design and implementation of the on-demand streaming service.
- Red5 Media Server implementation.
- Torrent Servers Implementation.
- Implementation of the CVS server.

## **PHP Developer**

B18

(February 2007 - November 2009)

- Crawlers Development.
- Viral Marketing.
- Backend development mostly in PHP.
- Extensive development for Wordpress, Joomla, Drupal and others CMSs.
- Frontend development.

## **Windows System Administrator / Teaching Assistant**

Colegio Nacional Dr. Arturo Umberto Illia

(2005 - 2006)

## **Software Developer**

Independent

(2002 - )

Throughout these years I have been working on projects I like

Things I have done and technologies I have worked with:

- Backend development in Python
  - Django, Flask, Pyramid, SQLAlchemy, Pexewee
  - Command line applications development
  - PaaS, IaaS
- Backend development in PHP
  - Laravel, Zend, Slim.
  - Design and optimization for high traffic websites.
  - Apache, Nginx implementation and optimization.
- Database Administration
  - SQL - (PostgreSQL, MySQL, SQLite)
  - NoSQL - (Cassandra, MongoDB)
  - Installation, configuration and monitoring.
  - Troubleshooting and resolving database problems.
  - Configure and monitor data replications.
- Logging - Consolidated logs - Lately using ELK (ElasticSearch, Logstash and Kibana)
- Application Benchmarking / Architecture Optimization.

- Bots development
  - Facebook Messenger / WhatsApp / Twitter / Tinder.
  - Multiprocessing
  - Continuous Deployment on distributed systems.
- Open APIs (Facebook, Twitter, Twilio, etc.)
- Containers (LXC, FreeBSD Jails, Docker)
- AWS

## TEACHING

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**LPIC-1: System Administrator** (2018) Knowtech Training - Barcelona

**Advanced Linux System Administration and Networking** (2017)  
Knowtech Training - Barcelona

**Internet Programming Languages** (2009) Colegio Nacional Dr. Arturo Umberto Illia

**Elementary Computer Architecture and Operating Systems** (2005 - 2007) Colegio Nacional Dr. Arturo Umberto Illia

**Elementary Computer Architecture and Operating Systems** (2005 - 2006) Instituto Argentino Modelo

## HONORS AND AWARDS

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**Diseño de Sitios Web - 11ra edición de la Maratón Informática Argentina (MIA)** (August 2002) *Universidad Nacional de Mar del Plata*

**Olimpiadas de Informática 2001 Mar del Plata** (September 2001)  
*Universidad Nacional de Mar del Plata*

## REFERENCES

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Available upon reference.