

Curriculum vitae

Personal data

Name: Ricardo M.

Technical Knowledge and Skills

Python, Django, MySQL



Ricardo is a software engineer with over seven years of professional experience and has a lot of experience with Python, Django and many more.

His primary focus is the development of server-side logic, ensuring high performance and responsiveness to requests from the front-end.

Ricardo is focused on writing reusable, testable, and efficient code.

He is Bilingual (English - Spanish) Python developer who likes to stay on top of the best practices and current trends.

Education

September 2001 —
September 2007

Spain
Engineer's degree in Computer Science, Pontifical University
of Salamanca in Madrid

Work experience

February 2016 -
Present

A3Sec, Spain
Full stack web developer

Stack:

- Python;
- Django;
- React;
- PostgreSQL and MongoDB;
- HTML5 and CSS3;
- CI with Gitlab;
- Git;
- Linux.

Responsibilities:

- Develop a network monitoring web application used by the two most important telco companies in Spain (Telefónica and Vodafone).

June 2013 -
February 2016

Ender Aplicaciones, Spain
Full stack web developer

Stack:

- TurboGears 2 Python framework;
- Django,
- SQLAlchemy;
- MongoDB;
- JavaScript;
- JQuery;
- Bootstrap,
- HTML5 and CSS3;
- PostgreSQL,
- Git;
- Linux.

Responsibilities:

- Build several web applications according to the clients' needs and specifications;
- The most important of which is called Atenea, a school management tool used by many teaching centers from all over Spain and Latin America.

January 2012 -
June 2013

Antex International, Italy
Python Developer

Stack:

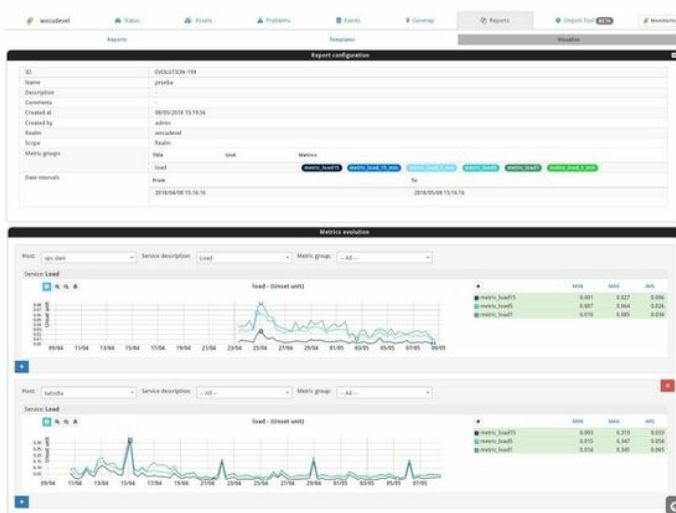
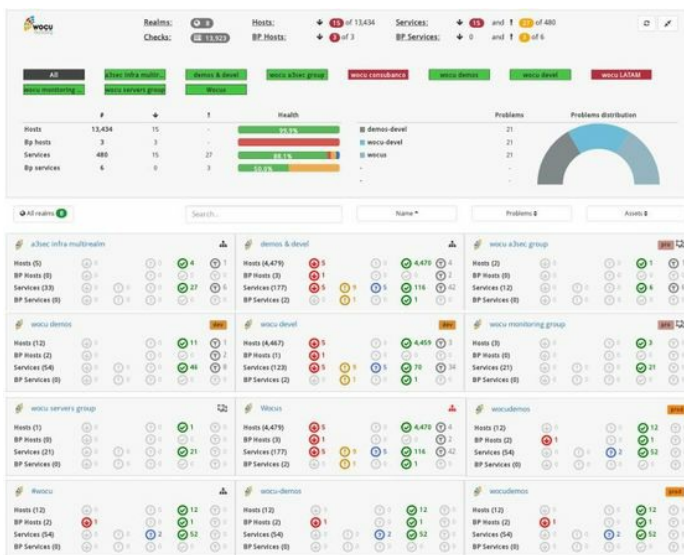
- Python.
- UnitTest,
- Git,

- Mantis.

Responsibilities:

- Implement in Python the algorithms to calculate the payrolls of international companies like Nokia, Pepe Jeans, Pronovias, etc.
- Special emphasis was made on the precision of the calculations and keeping the code base clean.

Portfolio



Pack name	Tags	Description
HTTP	http	Monitors HTTP response
ARUBA-ALCATEL-WIFI-CONTROLLER	aruba alcatel wifi	Checks for the Aruba/Alcatel Controller and its associated APs
ARUBA-ALCATEL-WIFI-AP	aruba alcatel wifi	Checks for the Alcatel WiFi APs and its APs connected
BOHANNEL-CISCO	cisco B-Channel	Plugin to monitor BGP/BRI B-Channel usage on Cisco gateways
BGP-CISCO	cisco bgp	Checks BGP peer availability and session state in Cisco devices
CALL-MANAGER-CISCO	cisco ccm call-manager	This pack implements a group of system and specific checks for the Cisco Call Manager
CISCO-INTERFACE-ADMIN-FC-HEALTH	networkdevice cisco health	Checks for the interface health on Cisco devices (Overrun/CRC/Errors/Drops)
CISCO-UCS-SERVER-INFO	hwinfo cisco UCS	Plugin for monitoring Cisco UCS Rack Servers, via CIM (snmp)
CISCO-WIFI-CONTROLLER	networkdevice cisco controller airspace wifi	Checks for the Cisco Airspace controller and its associated APs
DELL-SERVER-INFO	hwinfo dell iDRAC	Plugin for monitoring Dell Servers, via iDRAC (snmp)
DNS	dns	Dnslookup search to obtain the IP address for the given host/domain query
ELASTIC-NODE	health elasticsearch wocu	Checks for the status of a single Elastic node
ESX	vmware esx	Check VMware ESX virtual machines (guests)
ESX-HOST	server esx vmware	Check ESX host for cpu/memory/net/disk/daemons
GENERIC-PRINTER	snmp printer	Checks for the printer status (also consumables and trays)
HEALTH-CISCO	cisco health	Check hardware health status of Cisco devices
HP-SERVER-INFO	hwinfo hp ilo	Plugin for monitoring HP Servers, via iLO (snmp)
HSRP-CISCO	cisco hsrp	Monitors Cisco HSRP via snmp protocol
HTTP-CURL	http	URL checks, returns response time and http code
IPSLA-CISCO	networkdevice cisco ipsla ipdata	Check IPSLA rules (Jitter/RTT/Packets) in Cisco devices
Linux-NRPE	linux server nrpe	Linux host monitoring via NRPE (Plugins remote plugin execution)
Linux-SNMP	linux server snmp	Standard linux checks, like CPU, RAM and disk space. Checks are done by SNMP
Linux-SSH	linux server ssh	Standard linux checks, like CPU, RAM and disk space. Checks are done by SSH
LOG-OCCURRENCES	log	Check log occurrences in docs into index of logger
MXONE-ADVANCED	mxone aastra voip advanced	Additional Pack for Advanced (licensed) device. Get the operational backup status and traffic status of service nodes (SRM) using SNMP
MXONE-BASIC	mxone aastra voip basic	Pack for Basic (licensed) devices. Get the number of active (unhandled) alarms and status using SNMP
MYSQL-SERVER	linux server database mysql	MySQL Database Plugin Monitoring: uptime, Connection Time, InnoDB Hit Rates, etc
NAS-OMEGA	nas omega lenovo storage	Check Omega NAS system, disks, raid and storages

WOCU

February 2016 - July 2019

Website: <https://a3sec.com/wocu-monitoring/>

WOCU is a network monitoring tool designed to help telecommunication companies have a clear vision of the state of their networks and infrastructure.

WOCU is a network monitoring tool designed to help telecommunication companies have a clear vision of the state of their networks and infrastructure. This web application is currently being used by companies like Telefónica and Vodafone.

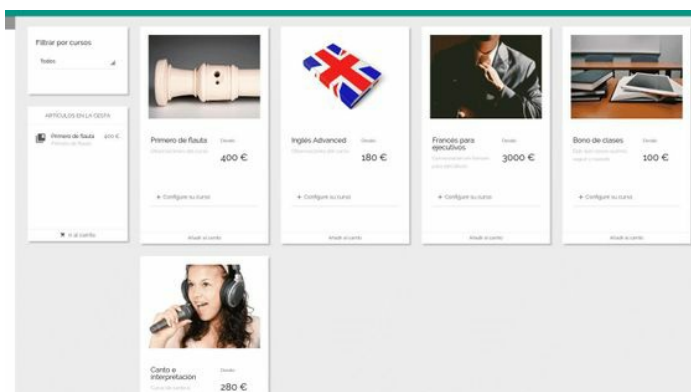
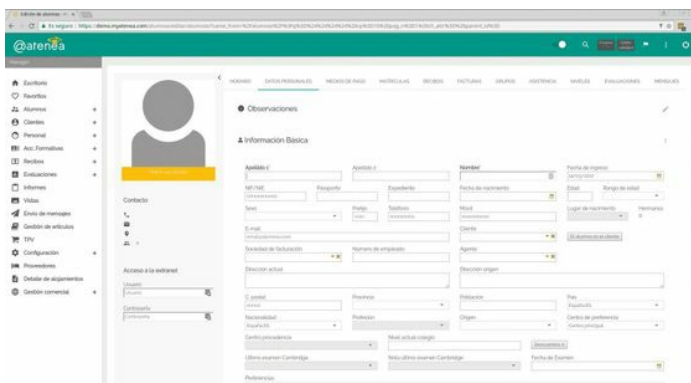
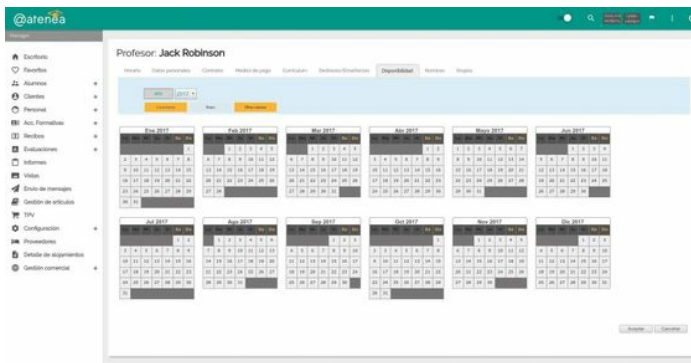
As a full-stack developer in this project, I implemented a very wide variety of core features. I created a system to render graphs based on the huge amounts of data collected over time. Since WOCU can monitor over a million of services, efficiency and optimization always played a big role in every new feature added. For this reason, I developed several Celery tasks to be run asynchronously and thus avoid clogging the system.

I also used the many tools Django Rest Frameworks offers to quickly develop many features based on the Create-Read-Update-Delete pattern.

Also, Test Driven Development was utilized throughout the whole process of developing each feature.

Technologies used:

Python, Django, MongoDB, React



Atenea

June 2013 - January 2016

Website: <https://www.ender.es/>

Atenea built by the Spanish company Ender Aplicaciones as a way to help academic centers manage in a fast and comprehensive way all of its resources.

Atenea is the name of the software built by the Spanish company Ender Aplicaciones as a way to help academic centers manage in a fast and comprehensive way all of its resources. Amongst other things, it allows to track staff availability, work hours, automate manual processes, enhance communication with teachers and students via e-mails or SMS.

My role in this project was as a full-stack developer. My work here consisted all the way from having meetings with the managers of the academic centers in order to gather functional and design requisites to implementing such functionalities, designing a usable and elegant interface and deploying the new features to the server.

Technologies used:
Python, Django

Antex International

June 2012 - June 2013

Website: <https://admin-me.com/services/payroll-services/>

I worked as a Python back-end developer implementing algorithms to calculate the payrolls for different international companies.

Antex International is a European Payroll Provider.

In this company, I worked as a Python back-end developer implementing algorithms to calculate the payrolls for different international companies according to the particularities of each country or collective professional agreements. I was also in charge of designing and automating the tests to ensure the correctness of each payroll using Test Driven Development.

Technologies used:
Python