

Dairon Medina Caro

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Professional Experience

Gooee(www.gooee.com)

St. Petersburg, FL, USA

Senior Software Engineer

March 2016–Cur.

Working on a next generation IoT platform for the lighting industry. Major accomplishments:

- Creation of REST APIs using Django and Django Rest Framework.
- Created realtime device communication Broker using Erlang/OTP and the MQTT Protocol. Handling 7+ Million messages per day in one node with minor impact on Memory/CPU.
- Scale Celery to thousand workers on ECS with autoscaling.
- Cloud-formed the entire cloud stack on AWS and built continuous build pipeline using Jenkins.
- Started migrating some micro-services that can run both in the Cloud and on embedded devices from Python to Golang.
- Participate on architecture design/brainstorming for various features.
- Writing tests and integration tests using pytest and Robot framework.
- Used both Scrum and Kanban based development methodologies.

Mycelium(www.mycelium.com)

USA(Fulltime Remote)

Senior Python Developer

Nov 2015–Mar 2016.

Software developer on the Swish project, a Web/Android application for managing restaurants and automatize orders with focus on Bitcoin Payments.

- Creation of REST APIs(Django Rest Framework).
- Code Reviews.
- Thorough testing with unit tests, integration tests and functional tests (Nose framework).
- Designing database architecture(PostgreSQL).
- Integrating new features.
- Code maintenance.
- Server Deployments and Development Infrastructure(Sentry, Docker, Vagrant).
- Writing docs using Sphinx

TutorCruncher(www.tutorcruncher.com)

UK(Remote)

Senior Software Engineer

Sep 2014–Mar 2015

Full-stack Django Developer for an Education Industry Startup. Worked on several features:

- Creating a reporting engine using Handlebar templates.
- Created scheduling engine for recurring invoicing.
- Various European Payment Gateways integration.
- Worked on the Frontend aspects using JQuery And Bootstrap, created charting components for analytics using D3.

Kruger Corporation(www.krugercorporation.com/en/)**Quito, Ecuador***Research Technologist**Jul 2013–Sep 2014*

Lead Developer for Kruger Labs(<http://www.krugerslabs.com.ec>), the first Ecuadorian Start-up Accelerator. Here we assisted with the creation of MVPs and more complex development challenges for new Tech based startups. I have worked on the following products during this time:

- Pinant(<http://pinant.com/>) - A geo-referenced social network for discovering places and deals on your city.(Discontinued by now)(Django and a lot of Javascript).
- RevolucionaTuPrecio(<https://www.revolucionatuprecio.com/>) - A social shopping site that lowers prices when you invite friends to buy the same product.(Django and frontend development).
- Sisaluna(www.sisaluna.com) - An e-commerce startup to sell high end Ecuadorian Roses on USA(Ruby on Rails).
- Created a clothes search service using Image Processing for a fashion startup.
- Created a service for recognizing check images for a mobile app developed by Kruger Corporation for local banks.
- Created Backend and Android app for access control using RFID.

AtikaSoft(www.atikasoft.com)**Cuba(Remote). Quito, Ecuador***Python Developer**Nov 2010–Aug 2012*

The scope of responsibilities were centered around OpenERP (actually Odoo) implementation and module development. I worked on the following projects:

- Development of python library to send HTML emails, design of email templates and integration with OpenERP modules.
- Creation of complex Excel Reports from OpenERP.
- Development of Purchase Requisition Module.
- Development of Human Resources and Payroll module that included contracts, incomes, expenses and extra hours and connection with Biometric Clock hardware.
- Development of Billboard Logistic Module specific for www.induvallas.com.
- Development of Audit, Building, Public Purchases and CRM modules specific for Public Institution <http://www.coviprov.gob.ec>.
- Migration of Human Resources and Accounting modules from Version 5 to 6.
- Design of Evolus Pencil widget library for Open-ERP GUI prototyping.

Center of Environmental Studies of Cienfuegos(www.ceac.cu)**Cienfuegos, Cuba***Software Developer**Jul 2007–Nov 2010*

- Design and Development of CEAC website using Joomla 1.0 CMS with custom modules and template.<<http://www.ceac.cu>>.
- Development of CEAC Intranet Platform named SINTERGEST using PHP, MySQL and Javascript.
- Development of "SIFICO", a multi-platform software to calculate prices and keep track of services offered. Used Lazarus Free Pascal, GTK and MySQL DB.
- Implemented front end for Biological Species Registration DB using Free Pascal, GTK2 widgets and MySQL Database.
- Designed and developed the inventory software for the IT Department using PHP, PostgreSQL and Python daemon to gather servers information.
- Implementation of some Linux network services such as SAMBA, SQUID Proxy, Iptables Firewall and OpenFire Jabber server and integration of all those with Active Directory.
- Implemented solution to generate plots and export data to CSV from X-Ray Fluorescence Lab Machine data files using Python, GTK and Matplotlib.

Education

Central University of Las Villas(www.uclv.edu.cu)

Cuba

B.Sc. Telecommunications Engineering

2009–2011

Polytechnic Institute "José Gregorio Martínez"

Cienfuegos

Associate's Degree in Computer and Information Sciences, Cuba

2004–2008

Languages

Fluent: English & Spanish

Understanding level: Russian

Other activities

- Speaker in Python St. Pete meetup
 - Talk about "Scraping the web with Scrapy".
 - Talk about "Django Channels"(<http://slides.com/daironmedinacaro/deck>).
- Participated in SpaceApps Quito "Volcanoes, Icebergs and Cats from Space" challenge in 2015 with the project "Eyes of Time"(<https://2015.spaceappschallenge.org/project/eyes-of-time/>).
- Organize in Ecuador the efforts to meet the missions and goals of the Python Latino initiative to create the Latin American Python community and increase the inclusion of Latin American Python developers.
- Organizer of Cienfuegos LUG in Cienfuegos, Cuba. We had monthly meetups. Presented some talks:
 - "Python and GTK for desktop App development in GNU/Linux".
 - "Open ERP for management of Cuban public companies".
- Contributor to various Open Source Projects: Chef, VerneMQ.
- Spanish translator for various Open Source projects: Fedora Linux, ClamTK, Imagination, gPHPEdit.
- I did some other non-academic courses: Linux, PHP5, Android Development, Erlang.

Technical Skills

Languages: Python, Erlang, C, Go, Ruby, HTML/CSS, Bash, Elm, JavaScript, \LaTeX , SQL, PHP, Lua

Frameworks: Django, Flask, Ruby on Rails, AngularJS

Databases: PostgreSQL, MySQL/MariaDB, MongoDB, NMESIA

Operating Systems: Mac OS X, Linux

Methodologies: Agile, Scrum, TDD, Kanban

Other: Docker, Vagrant, AWS, NGINX, Microservices, MQTT, RabbitMQ, Redis, Jenkins