



# MARCOS AGUAYO

## SENIOR DEVELOPER

[marcosaguayo.com](https://marcosaguayo.com)

### ABOUT ME

I am a full-stack engineer with expertise in Python, JavaScript, Go and frameworks like Django, FastAPI, Express, and Gin-Gonic. I have experience building scalable backend systems, developing APIs, and working with front-end technologies like Vue.js, React, Next.js, and VanillaJS. I have experience in blockchain and smart contract development with Solidity (ERC20 and ERC721)

### CONTACT



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+34 630 24 52 53



[marcosaguayo.com](https://marcosaguayo.com)



[github.com/maguayo](https://github.com/maguayo)



Barcelona, Spain

## EXPERIENCE

### CTO - Insectius

Jan 2023 - Present / Barcelona, Spain

I lead the development of AI software and automation systems for innovative insect farming. By integrating computer vision, I've created Python and React-powered dashboards, as well as React Native mobile applications, significantly advancing sustainable agriculture. My work also includes designing and implementing production lines with KUKA robotic arms, demonstrating a fusion of technological expertise and practical application in shaping the future of sustainable food production.

### Lead Software Developer - Cocunat

Sep 2019 - Present / Barcelona, Spain

My role contributed to business-wide solutions, not just limited to engineering. As one of the initial employees at Cocunat, I played a significant role in the company. I used:

Cloudflare Workers, KV and D1  
Python, NodeJS and Go microservices  
AWS: Lambda, Dynamo, SQS, API Gateway, S3, EC2  
CI/CD with CircleCI and Github Actions  
Serverless Framework  
FastAPI and Django  
TDD  
React and React Native  
NextJS

### Senior Backend Developer - FUTRLI.COM

Sep 2018 - Sep 2019 - 1 year contract / Brighton, UK

Hired as a contractor for a year, my primary focus was to strengthen the backend infrastructure.

Hired as a 1-year contractor to assist in building the backend.  
Python microservices  
Multiple REST APIs with Django Rest Framework  
AWS: API Gateway, EC2, Cognito, Kinesis

### Senior Web Developer - Cocunat

Jan 2016 - Sep 2018 - 2 years and 10 months / Barcelona, Spain

Create a custom e-commerce using Django / Node.js.  
Create multiple dashboards (React)  
REST API (Django Rest Framework).  
Kubernetes  
AWS: S3, EC2

### Senior Web Developer - Micuento

Nov 2013 - Mar 2016 - 2 years and 5 months / Barcelona, Spain

Co-founder and Lead Developer.  
Create a custom e-commerce using Django  
REST API using Django Rest Framework  
Creation of mobile apps using Ionic 2 and React Native.  
Creation of Augmented Reality apps with Unity.  
AWS: S3 and EC2



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#### Web Developer - Neoxid Solutions

Jan 2012 - Jan 2014 - 2 years / Barcelona, Spain

Development of webapps with Django and Node.js.

Programming corporate websites with Django or Wordpress.

Development of e-commerce, mostly with WooCommerce.

Experiments with artificial intelligence and Machine Learning

Creating APIs and Integrations.

#### Junior Web Developer - Unic Agency

Feb 2009 - Jan 2012 - 3 years / Barcelona, Spain

Creation of websites with CMS (Wordpress / Python).

Creation of applications for Android.

E-commerce with WooCommerce.

Creation of themes for Wordpress.

### PERSONAL PROJECTS

#### Luracoin

[luracoin.com](http://luracoin.com)

Luracoin is a minimalistic implementation of a cryptocurrency written in Python. Its goal is to provide a clear, simple representation of the Nakamoto consensus algorithm, without the focus on advanced functionality, speed, or practical use. I created it primarily to gain a deeper understanding of Bitcoin and cryptocurrency. It may also serve as a starting point for programmers interested in learning about Bitcoin and cryptocurrency,

#### Devect

[devect.com](http://devect.com)

I created Devect.com to help manage my personal servers and to gain a deeper understanding of DevOps and Linux. The platform is currently in beta and not accepting new users. The project includes features such as server monitoring, logs, API monitoring, monitoring the number of concurrent users on my websites, and various other functionalities. Devect was primarily developed using Django, with small portions developed using Node.js and Go.

#### Bugfer

[bugfer.com](http://bugfer.com)

I created Bugfer, a user-friendly and simple issue and bug tracking tool. It was designed to address a problem I encountered while working at Cocunat.com. Multiple departments were reporting bugs or requesting changes, but they found the existing tools like Asana or Trello too complicated to use. As a result, they would often send emails instead of creating tasks. With Bugfer, I aimed to make the process of creating tasks simpler and more accessible for non-technical employees. It currently has over 120 active users.