



## Jorge Enrique Ortega Silvera

Software Engineer

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## SOCIAL

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## PROFILE

I'm a Software Developer, open source contributor programmer & enthusiast. I have worked on different systems, microservices orchestration and application security. I've used Nodejs and Golang both professional and personal projects, providing scalable and distributed systems, web applications and microservices for more than four years.

## EDUCATION

### MD of Applications Security

UCI University

2019 - 2021

### Software Engineer

UCI University

2010 - 2015

## LANGUAGES

- Spanish
- English

## EXPERIENCE

### Web & Mobile Developer

From 2016 to 2017

I assumed new mobile applications at the logical level interacting with Android SDK and custom REST API data interchange. This time, backend development was around the Technical Management and Support area and obsolete solutions migration from MVC to REST API pattern. Backend solutions were still implemented on ExpressJS framework and frontend tasks with VueJS. The biggest challenge was the Kotlin language integration.

### FullStack web Developer

From 2017 to 2019

In this opportunity I had a new professional challenge. The job was to migrate a big legacy system with monolithic architecture. I started a deep research over microservices solutions and strategies to split the shutdown process in chunks of functionalities. Nginx server as a load balancing implementation and JWT authentication module where the main challenges over the services and the business logic.

### Backend Engineer Microservices

From 2019 - 2021

Since I matured my stack I have been focused on improvements and scalability, high performance and observability solutions for troubleshooting interests. To solve this I decided to introduce a new programming language "golang" for critical and high throughput services. For scalability improvements I added Docker technologie. Aside from that, Real Time data flow and information distribution from many inputs to many outputs was solved with "Apache Kafka" implementation facing with 1Tb/week. Caching, rate limit, pub/sub & streams were interesting features on my solutions, solved with "Redis", it contributed with networking call optimizations, reducing the request time. Other features introduced to improve the performance of our microservices was "gRPC" usage as an alternative to the standard REST-API decreasing payload size on the request. In the observability process I am currently using different technologies. For logs registration and events I use "ELK stack", "Loki & promtail", for metrics of services I use "Prometheus", "Influxdb" and Grafana. This technologies have increased the performance and observability of our product, my team and I have implemented a secure environment integrating existing systems and new microservices.

### Data Engineer & Backend Engineer

From 2021 - present

Currently I'm using go as a primary programming language, I have been focused on grpc services, apache kafka, docker, observability solutions like prometheus and grafana, also AWS serverless as alternative to solve different business solutions. In the Data engineer area I have the opportunity to work in the process of build pipe lines using apache kafka & kafka Connect, making integrations with postgresql and elasticsearch. Currently I'm learning apache spark for improve my knowledge and create better solution.

## GENERAL SKILLS

- golang
- mongodb
- elasticsearch
- jvm (Kotlin/scala)
- postgresql
- redis
- prometheus/grafana
- apache kafka