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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 Developer

From 2015 to 2016

In this period I created monolithic systems focused on Human Resources areas and their decision-making processes through friendly interfaces. I also faced endpoint connections with legacy backend solutions, as well as MVC apps development. My main stack was headed then by a NodeJS stack (Express, MongoDB, EJS Templates & Bootstrap Framework) complemented with Apache Solr capabilities as a search engine.

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 - present

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 technology. 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 and pub/sub 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 were "GraphQL" and "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, 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.

GENERAL SKILLS

- nodejs/reactjs/vuejs/Kotlin
- scikit-learn/pandas/python
- golang
- postgresql/redis/mongodb
- kafka/prometheus/TICK/ELK
- docker/nginx/

CERTIFICATES

- RU202 Redis streams
- RU330 Redis Security