

Oscar Forner Martinez

I am a software engineer with experience in all phases of the development process with special focus on delivering quality software to the costumers. I have experience in a diversity of projects ranging from a RESTful API processing thousands of requests per second, through compilers to video processing pipelines.

You can use an interactive version of my CV by running: `docker run -it maitesin/resume`

Experience

June 2018

- Present

Senior Backend Software Engineer at GlobalSign

As part of my duties in GlobalSign I implemented new functionalities in the **High Performance Platform** that serve thousands of certificates per second, and I took care of the migration of backend storage from **MongoDB** to **PostgreSQL**.

Moreover, implemented a prototype of the system used in production running in **Kubernetes** to test the feasibility of a future migration. As a side project I developed an **static analysis** tool to enforce the code style used in the company.

I mentored multiple new-hires and had a highly involved role in the hiring process.

Sept. 2016

- June 2018

Software Engineer at VCA Technology

During my time at VCA Technology I created a **network library** that allows the user to interact with **Boost ASIO** through the **std::stream** interface, added **authentication** to the system, and designed the **configuration migration process**.

In addition, I improved the in-house **toolchain** to use **clang-tidy** for the linting of our code and I lead the usage of **continuous integration** in order to improve the product delivered to the customer, and to reduce the time to market.

April 2015

- Sept. 2016

Software Developer at Programming Research

I worked in two projects during my time at Programming Research.

-Static analysis of code: Checks if the code has some patterns that have an *undefined behaviour, unspecified in the Standard, and/or implementation-defined*.

-Dataflow analysis of code: Checks the complexity of methods, pointer problems, memory handling, etc.

July 2013

- Apr. 2015

Software Engineer at European Bioinformatics Institute

One of my duties was to create a RESTful service to allow users to query for information about multiprotein complexes.

In addition, I developed an algorithm to cluster biological information from proteins.

2013-Present

Open Source

I am actively contributing to open source projects that I find interesting, and useful. Some of my contributions can be found in my [GitHub profile](#).

To name some, **ARM C Compiler (ACC)** is a **self-hosting compiler** for **C** in the **ARM** architecture, **Interactive CV** built using **Rust** and **Docker**, and a **Prefix Tree Comparison** to compare the performance of **Trie** and **Radix Tree**.

Education

2010-2013	Bachelor of Engineering in Computer Science ; Universitat Jaume I (Spain) <i>Advanced Data Structures, Compilers and Interpreters and Distributed Systems</i>
2006-2010	Associate Degree in Computer Science ; Universitat Jaume I (Spain) <i>Operating Systems, Real Time Operating Systems and Embedded Systems</i>

Programming Languages

C++	5 years of experience using Modern C++ and Boost .
Python	5 years of experience.
C	4 years of experience.
Go	3 year of experience.

Technical Skills

Build	CMake , Meson , Make and Ninja .
CI	GitLab-CI , Jenkins , Bamboo and Travis .
Databases	MongoDB , PostgreSQL , CockroachDB , MariaDB , SQLite and MySQL .
Analysis	Golint , Go vet , Perf , Clang-sanitizer and Valgrind .
Orchestra- tion Message Bro- ker Operating Systems	Kubernetes , Helm and Docker compose . RabbitMQ and Kafka . GNU/Linux , MacOS , FreeBSD and OpenBSD .

Languages

Spanish	Native
English	Fluent

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GitHub: <https://github.com/maitesin>