

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, I 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 such as: *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

My main duty 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](#).

These include, **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)
Advanced Data Structures, Compilers and Interpreters and Distributed Systems

2006-2010 **Associate Degree in Computer Science**; Universitat Jaume I (Spain)
Operating Systems, Real Time Operating Systems and Embedded Systems

Programming Languages

C++ 5 years of experience using **Modern C++** and **Boost**.

Python 5 years of experience.

C 4 years of experience.

Go 3 years 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. **Kubernetes, Helm** and **Docker compose**.

Broker **RabbitMQ** and **Kafka**.

Languages

Spanish Native

English Fluent

oscar.forner.martinez@gmail.com

+44 (0)75 96944383

Blog: <https://oscarforner.com>

LinkedIn: <https://www.linkedin.com/in/oscarforner>

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