Oscar Forner Martinez

I am a software engineer with experience in all phases of the development process. I have experience in a diversity of projects ranging from a RESTful API, and 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.

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)
	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 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	**Clang-sanitizer**, **Coverity**, **Perf** and **Valgrind**.
Orchestration	**Kubernetes** and **Docker compose**.
Message Broker	**RabbitMQ** and **Kafka**.
Operating Systems	**GNU/Linux**, **MacOS**, **FreeBSD** and **OpenBSD**.

Languages

Spanish	Native
English	Fluent

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LinkedIn: `https://www.linkedin.com/in/oscarforner`

GitHub: `https://github.com/maitesin`