Oscar Forner Martinez

I am a software engineer who likes challenges when working in a project, I really enjoy applying elegant algorithms and advanced data structures to solve problems in an efficient and elegant way. Moreover, I am interested in topics such as Linux Kernel and Compilers.

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

Experience

2016-Present   **Software Engineer at VCA Technology**

At VCA Technology I worked in several projects:

-A **network library** that allows the user to interact with **Boost ASIO** through the **std::stream** interface.

-A tool to **improve the toolchain** used internally to allow the usage of **clang-tidy** for the linting of our code. And a tool that allows to **switch between several versions of the toolchain** without having to change the environment.

-**Backend development** of several activities regarding the extension and implementation of new features in the backend of the product such as **Authentication**, **Configuration migration process** and **GStreamer** sinks.

-Started the **integration testing** project that currently runs as part of the **continuous integration** system.

2015-2016   **Software Developer at Programming Research**

I have been working in a couple of 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.

In addition, I had to take over two projects to refactor, maintain and add new features.

2013-2015   **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 challenging. Some of my contributions can be found in my **GitHub profile**.

Linux Kernel: I am interested in topics such as **Scheduler** and **Device Drivers**. I am currently taking the **Eudyptula Challenge**.

Prefix Tree Comparison: Compare performance for different *Trie*, *Ternary Search Tree* and *Radix Tree*.

ARM C Compiler (ACC): I am creating a **self-hosting compiler** for **C** in the **ARM** architecture.

Interactive CV: I have created an interactive CV using **Rust** and **Docker**.

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*.
C	5 years of experience.
Python	4 years of experience.
Go	1 year of experience.
Rust	6 months of experience.

Technical Skills

Agile	**Scrum**, **Kanban**, **Code Review**, **Pair Programming** and **TDD**.
Build	**Make**, **Ninja**, **CMake**, **Meson** and **Waf**.
CI	**Travis**, **GitLab-CI** and **Jenkins**.
VCS	**Git**, **Subversion** and **Mercurial**.
Analysis	**Clang-sanitizer**, **Coverity**, **Perf** and **Valgrind**.

Languages

Spanish	Native
English	Fluent

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