

# Daniele Cruciani

SOFTWARE ENGINEER · SOFTWARE ARCHITECT

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“Take a bad song and make it better.”

## Education

### Università di Pisa

B.S. IN COMPUTER SCIENCE

- 101/110 Bachelor on CS.

Pisa, Italy

Set. 1994 - Dec. 2001

## Skills

**DevOps** AWS, Docker, Kubernetes, Ansible, GitOps, Jenkins

**Back-end** Fastify, OpenAPI, amqp0.9, REST API, MySQL, Elasticsearch, InfluxDB

**Front-end** Hugo, Redux, React, HTML5, LESS, SASS

**Programming** Node.js, Deno, Rust, Golang, PHP, C, C++, LaTeX

**Languages** Italian, English, German (only read)

## Experience

### xwave Group Deutschland GmbH

Frankfurt am Main, Germany

BACKEND DEVELOPER, PROJECT MANAGEMENT, SOFTWARE ARCHITECT & DEVOPS

Dec. 2017 - Present

- Everything that matters.
- Staff Training: how to define a REST based microservice with NodeJS and Fastify. I have given interactive lesson to my colleagues.
- Software Architect. (2022) Implementation of Saga/Orchestrator pattern for distribute and decouple microservice. Advanced orchestrator with internal scheduler defined by policy parameters. Backup/report on mysql db, command & job spawn via RabbitMQ.
- Project Management. Install and use Redmine on premise, with module for kanban/scrum. Setup some ritual (weekly meeting). I am not a scrum expert, it is not my skill, but I did.
- System admin & DevOps. Setup GOGS (and then GITEA), and Jenkins for building and run integration tests on microservices.
- Software Architect. (2018) Configurable gateway images, talking with internal microservice and implementing JWT auth for the outer world. Multi-step and JSON request aware.
- System admin & Backend Dev. Setup a Docker Swarm with 3 nodes (2018). First port of backend script to Docker Swarm. Microservice talking REST.

### xwave Group Deutschland GmbH

Frankfurt am Main, Germany

WEB DEVELOPER - CONSULTANT

Dec. 2014 - Dec. 2017

- Desktop App. Electron + React that use REST API to get customer's data to print and change status.
- Backend service. Stand-alone NodeJS based service, was the begin to my backend journey in xwave.
- Front end. jQuery & jqGrid Javascript library for presentation of data.
- PHP. Used as apache module for suppling data to the frontend. Optimization of session data preparation, check for permission, profile & optimize response time.

### Linguistic Studio

Macerata, Italy

WEB DEVELOPER

Sep. 2013 - Jul. 2014

- NodeJS. API for ecommerce ebay integration & central synchronization by a service.
- Javascript. AngularJS (1.0) frontend for ecommerce synchronization service.
- Drupal. Ecommerce integration for ebaysync service: hook on purchase and periodical synchronization of stock levels.

### WMR s.r.l. Studio Capello

Saonara, PD, Italy

WEB DEVELOPER

Sep. 2013 - Dec. 2014

- Drupal & Web Development. Website fix and optimization for a number of websites.

### Linguistic Studio

Macerata, Italy

WEB DEVELOPER

Oct. 2010 - Dec. 2012

- Drupal. Bugfix and optimization for ecommerce and other website.
- Drupal module development for third party (XML) service integration.

## IM Evolution

Taviano, Lecce, Italy

WEB DEVELOPER

Jul. 2005 - Dec. 2014

PHP and HTML. A number of web technology integration, like RSS, indexing for spiders, HTML formatting for SEO optimization, and so on. jQuery. Administration panel for content edit and creation. Perl, MySQL & HTML. Content generator scripts from database MySQL.

## IRISNet Solution

Pisa, Italy

WEB DEVELOPER

Oct. 2010 - Dec. 2012

Most of the works done for xwave GmbH. PHP & Javascript. Development and bugfix of web applications.

## Confestetica

Rimini, Italy

WEB DEVELOPER

May 2009 - Jun. 2010

PHP + jQuery + AJAX. Community site: confestetica.it. I implemented a GUI similar to facebook, using AJAX to get preview and post without reloading.

## Portel s.r.l.

Milano, Italy

SMARTPHONE DEVELOPER

Feb. 2007 - Sep. 2007

Symbian OS 8.1 to 9.1. Porting of an existing Mobile App from Symbian OS 2<sup>nd</sup> edition (8.1) App to Symbian OS 3<sup>rd</sup> Edition (9.1).

## Wind S.p.a.

Pisa, Italy

WEB DEVELOPER

May 2005 - Jul. 2005

PHP Development. digiland.libero.it community site, restyling of css. XSL/XSLT transformation for generating contents from XML source.

## Dr.Net coop

Macerata, Italy

WEB DEVELOPER

May 2004 - Jun. 2004

PHP. Extension to PHP Nuke framework.

## A-Tono S.r.l.

Milano, Italy

SYMBIAN OS DEVELOPER

Jun. 2003 - Jan. 2004

Symbian OS 6.1. Http/1.1 library handcrafted for the project. Symbian OS 6.1. Interface scrolling and selecting data to download. Planned the use of SMS interface for payment system (reverse billing).

## Myself

Italy

DEVELOPMENT

2002 - 2005

Started a number of project, including J2ME client, Computo Metrico (calculation of cost in construction) with XCode and Objective C.

## Santoni Fulvio Costruzioni, S.n.c

Camerino, MC, Italy

JAVA DEVELOPER

Feb. 2003 - Mar 2003

- Java Applet for computing forces of reticular bridge. Interactive input (with instrument palette), calculation using Gauss/Jordan with pivot for stability, and with singularity detection.

## Noze S.r.l.

Cascina, PI, Italy

DESIGN & DEVELOP

Mar. 2002 - Oct 2002

- Monitoring, collecting of sensible data system (for hotel presense): a MS win client, a number of collecting server, one monitoring server. Definition and implementation of network protocol (HTTP/1.1 based, over PSTN line). Design and implementation of two daemons: a collector service, for controlling incoming pppd connection, and monitoring service, for statistics. Using PostgreSQL, and PHP for web interface.
- Parse a binary log. Program that generate report from a binary log file generated from a gsm/gprm logger (similar to radius). LL(1) Parser, POSIX pthread, and autoconf/automake.
- Analysis on Global FS and dfs implementation of an app. (not benchmark, just theoretical)

## Certificates

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2012 **Zend Certified Engineer on PHP 5.3**, Zend

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