Simone Mosciatti

Curriculum

Italy
✉ *simone@mweb.biz*
🖥 *siscia.github.io*

Education

2013–Present **Bachelore in Engineering of Computer Systems**, *Politecnico di Milano*, Milan, Italy.
As my final project I am currently working on **Estimating time to completion of MapReduce jobs**. In this work, I leverage MARC, a framework for the estimation of resource consumption, as a mean to provide accurate models for the completion time of MapReduce jobs, executed on a Hadoop cluster. I take into consideration the percentage of job completion as a resource that can be consumed; a piece-wise linear model is then generated subdividing the job execution into different phases, according to configuration parameters and runtime metrics. The proposed model allows the user to have both a better estimate of the time required by an already submitted job to complete and the ability to perform more accurate resource reservations, towards a more efficient scheduling and a higher cluster utilization.

2014–2015 **Bachelore in Engineering of Computer Systems**, *Tongji University*, Shanghai.
Double Degree Program Politong

Experience

2013–2014 **Software Engineer, Freelance**, *workinvoice.it*, Milan.
The platform is a marketplace to buy and sell invoices.
Starting from a rough prototype I re-wrote the whole backend code in such a way to be maintainable and scalable, I also added interactivity via JS.
As requested by my costumer the backend is written in Clojure while the frontend uses a more standard HTML5/CSS/JS combination.

- Build authentication system for different kinds of users.
- Design and implementation of the API
- SQL schema design
- Frontend work

2012–Present **OpenSource Author**.
I am the author of the following projects:

- github.com/siscia/**effe** Open Source Software to provide the same advantages of AWS Lambda. Introducing Effe
- github.com/siscia/**effe-tool** Makes it easy and simple to work with effe
- **Introduction to Highly Scalable, Fault Tolerant, Distributed System** Tiny introduction to the ideas behind Highly Scalable, Fault Tolerant, Distributed system.
- github.com/siscia/**numerino** Priority Queue is Elixir/Erlang/OTP
- github.com/siscia/**postgres-type** Makes possible the use the JSON datatype in Postgres database with clojure.

2012–Present **OpenSource Contribution**.
Contribution to the following libraries

- ○ github.com/clj-time/**clj-time** the standard way to handle time in clojure
- ○ github.com/budu/**lobos** SQL schema manipulation and migration library for clojure
    - I made possible to use lobos with the last version of the java driver.

Languages

Italian	**Mother tongue**
English	**Proficient** *I was an AFS exchange student in 2011-2012 at Carthage, MO, USA high school.*
Chinese	**Basic**

Programming Skills

Proficient	**Clojure**, *compojure, monger, korma, core.async*.
Proficient	**Python**, *Flask, Django*.
Proficient	**Elixir**, *Erlang/OTP, BEAM VM*.
Very Good	**SQL**, *PostgreSQL, SQLite3*.
Very Good	**NoSQL**, *MongoDB*.
Very Good	**Java**.
Very Good	**Go(lang)**.
Good	**C/C++**.
Good	**JavaScript**, *mongoose, node.js*.
Basic	**Haskel**.
Basic	**Rust**.