GIACOMO TAGLIABUE

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Hi, I am Giacomo, a full stack developer, I like crafting software that matters. I am interested in the web, programming language theory, and software architecture.

TECHNOLOGIES AND SKILLS

I am very good at: C#, .NET, REST services, OOP, automated testing.

I am quite good at: ES6/Typescript, AngularJS, node, functional programming, SQL.

I am good at: CSS3, SASS, HTML5, NoSQL.

I am a beginner at: Scala, react, F#, C++.

Some tools and practices I use on a daily basis: Grunt, Gulp, CI, git, github-flow, bash/zsh, powershell, Visual Studio, Sublime Text.

The rest, I hope to learn one day.

WORK EXPERIENCE

Software Engineer – Hyla Soft – 2013–today

I am currently a software engineer at Hyla Soft. I focus on building web applications to provide solutions for the manufacturing industry, and supervise the software development process and standards company-wide. I leverage and push new web technologies in an enterprise context. Some project and initiatives I led:

- JSM (2014): Design and implementation of an order management system for small part manufacturing shop floors. JSM is focused on simplicity, ease of use and configuration, high modularity and extensibility, modern web interface.
    - Commissioned by a software vendor, JSM integrates and ships with company flagship product.
    - Technologies used: C#, ASP.NET WebApi, MSSQL, Typescript, SASS/Compass, Bootstrap, Grunt, Bower.
- SPOM (2014): Design and implementation of a system to manage and monitor operations in an oil and lubricant manufacturing company.
    - Integration of different systems and protocols: ERP, machine controllers (through OPC).
    - Technologies used: C#, ServiceStack, MSSQL, Typescript, SASS, Angular Material, Gulp, Grunt, Bower, Appveyor CI, Electron.
- Hyla Soft SW Development Initiative: I helped Hyla Soft improve company's software development projects by fostering best practices, standard tools and products, a healthy engineering culture, and modernizing the technological stack.
    - The results are summarized in these slides: https://goo.gl/cCXYfW.

Research Assistant – DARPA / University of Illinois at Chicago – 2012–2013

Employed in DARPA's CSFV (Crowd Sourced Formal Verification) Project. CSFV investigates extensions of compilers' optimizations using formal verification. Technologies used: C++, LLVM-CLANG infrastructure, Z3 SAT solver.

EDUCATION

Master of Science Degree in Engineering of Computing Systems
Politecnico di Milano - Milano, Italy - GPA 28/30

Master of Science Degree in Computer Science
University of Illinois at Chicago - Chicago, Illinois - GPA 3.85

Bachelor of Science Degree in Engineering of Computing Systems
Politecnico di Milano - Milano Italy

Master thesis: An Annotation Framework for the LLVM Compiler Infrastructure
Available at https://github.com/itajaja/thesis
Supervisor: Lenore Zuck (reference: lenore@uic.edu)

PERSONAL PROJECTS

h-opc https://github.com/hylasoft-usa/h-opc
OPC made simpler. For UA and DA.

markdawn https://github.com/itajaja/markdawn
Markdown for paged documents. This very resume is built with markdawn.

h-dependency https://github.com/hylasoft-usa/h-dependency
Dead Simple dependency mechanism provider to achieve loose coupling and easy mocking.

cs-boilerplate https://github.com/hylasoft-usa/cs-boilerplate
A boilerplate set of Grunt tasks for .NET applications to enforce coding standards among all company's project.