



# Margherita Lazzarini

## Software developer


<http://www.margheritalazzarini.com/>

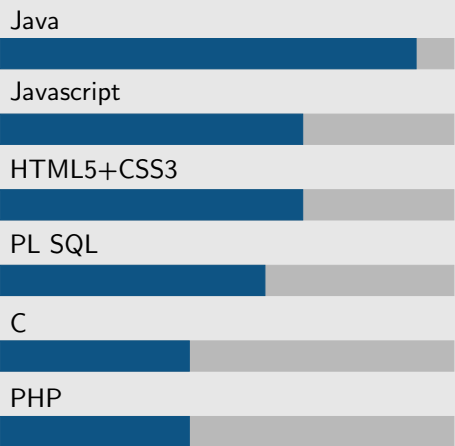

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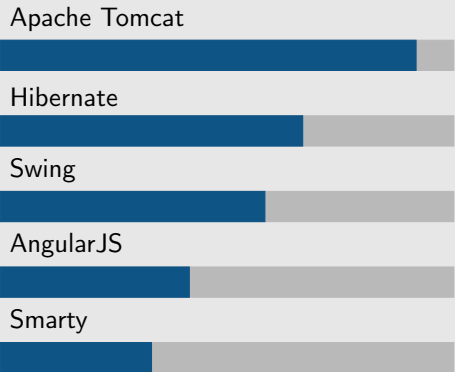

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## Skills

### Programming languages



### Tools and frameworks



### IDEs

NetBeans, Eclipse, Android Studio

### Operating systems

Ubuntu, Microsoft Windows 7/8/10, Android, Debian

## Experience

### Vocational

2015 - 2017

**Software developer, Noemalife SPA.** Bologna  
 Contribute to a Java Tomcat based application to handle anatomic pathology workflow.  
**Duties:**

- Working on systems maintenance patches and bug fixing
- Providing enhancement to existing and new system modules
- Developing and testing new modules
- Support customers and staff in issue resolution.

**Programming languages:** Java 8, Oracle database and PL/SQL language. **Java Swing API** for frontend. **Tools:** Apache Tomcat Server, Java Web Start, Hibernate framework. NetBeans as IDE. Agile development.

2014

**Internship as a software developer, Noemalife SPA** Bologna  
 to write my master thesis: *Design and developing of a REST application preventing chronic diseases*. I worked on a web application to predict chronic kidney disease, starting from laboratory analysis results. I developed the analytical section to view aggregate real NHS data and perform what-if analysis.  
**Technologies:** REST resources, EJB architecture. OLAP database and MDX queries. AngularJS for frontend.

### Miscellaneous

2013 - 2014

**Didactical tutor, University of Bologna** Bologna  
 Didactical support both for students and teachers.

2012 - 2013

**Front + backend web developer, R4D1C4L** Bologna  
 I developed CMS applications to handle websites updates. I used Smarty PHP framework, MySQL database and HTML/CSS.

## Education

2012 - 2014

**Masters of Computer Science** University of Bologna  
**Grade:** 110 cum laude/110.  
**Thesis:** See [working experience](#) for more info

2008 - 2012

**Bachelor of Computer Science** University of Bologna  
**Grade:** 99/110.  
**Thesis:** *Elliptic curves cryptography and Cryptokit library integration*. Study about elliptic curves cryptography and implementation of OCaml ECC functions for Cryptokit, a library of cryptographic primitives.

## Projects

2014

**JBoss app using Opennebula tool**  
 Configuration of a cluster of virtual machines using Opennebula and deployment of a JBoss simple stateful app to test fault tolerance.

2013

**ICD9-CM classifier**  
 An automatic ICD-9-CM classifier for textual medical reports. See <http://www.margheritalazzarini.com/data/talk.pdf>

2012

**Proxy miniHttp with prefetching**  
 A simple HTTP proxy working on a subset of HTML. Developed in C with pthread to serve multiple HTTP requests. See <https://code.google.com/archive/p/prefetching/>