

# Andrea Scarpino

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I am a hands-on, competent software developer and GNU/Linux system administrator. I'm also involved in Open Source projects. I've an excellent knowledge of shell scripting and Java. I wrote Web services, Desktop and mobile applications using several languages. I love hard challenges and I strongly believe there are no barriers in software development; my motto is «Everything you can explain, I can implement». I'm very passionate in my job and I rigidly follow code guidelines and standards when I write code. I'm familiar with version control systems, containers, continuous integration/delivery concepts and tests.

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## Professional Experience

### • Klopotek Software & Technology Services Italia S.r.l.

*Developer Operations*

**Gioia del Colle (BA), IT**

*Dec 2015 – Present*

I'm in charge of all operations ranging from build to deployment of the applications developed by Klopotek. I also developed a tool to automatize Klopotek applications installation, and their updates, to the cloud or to any in-house environment of any Klopotek customers.

### Key Projects & Achievements

- Automation: I developed a J2EE application which allows to handle installations and updates of Klopotek applications to any local or remote host running GNU/Linux or Windows Server. The UI, wrote using AngularJS, allows to choose which application to install, to which machines and for which customer. Then Ansible playbooks, that I wrote, do the job. This application is distributed as a Docker image.
- Continuous Integration/Deployment: I setup GitLab for source code hosting, Jenkins for automatic builds, automatic execution of unit and functional tests, static code analysis, JFrog Artifactory as Maven repository, ELK (ElasticSearch, LogStash and Kibana) for logs analysis, daily backups on AWS and automatic deploys to our test environments.

### • NoemaLife S.p.A.

*Junior Analyst*

**Bari, IT**

*May 2014 – Nov 2015*

Recruited to develop a Web Semantic application that automatically check the validity of CDA documents (XML-based files that follow the HL7 Clinical Document Architecture) which make reference to universal code names, terms, synonyms and identifier to medial terminology as LOINC, MeSH or SNOMED CT. This application relies on semantic technologies such as OWL and reasoners. It is developed using J2EE APIs and a RDF database for persistent storage.

### Key Projects & Achievements

- Back-end development: I developed the whole backend architecture; in details the methods to: perform queries and write operations on the RDF storage; transform the XML file in RDF format and send it to the reasoner; the services that look for new CDAs and send them to the processing queue in an asynchronous way as the whole architecture is multi-thread safe.
- Front-end development: I developed the JSP pages that allows to administrate the application through various configurations (e.g. which terminology services to use) and to perform SPARQL queries to the back-end and present the results in a “browsable way”.

### • NeaLogic

*Software Developer*

**Modugno (BA), IT**

*Jan 2014 – Apr 2014*

Recruited to develop a Burraco card game for PCs. The game continuously did exchange messages with two servers: a SmartFoxServer instance and a custom one, based on PHP.

### Key Projects & Achievements

- Front-end development: I did develop the front-end using JavaFX. The application was multi-thread and almost every action did require a message exchange with the SmartFoxServer or the PHP one. The game

features include: a login, a chat window with statuses, *1vs1*, *1vs1vs1*, *1vs2* and *2vs2* game mode, user settings for audio and video options.

- **DataToKnowledge S.r.l.s.**

*Co-Founder & Software Developer*

**Bari, IT**

*Aug 2013 – Mar 2015*

We developed a Web service that automatically grabs news about outlaw events from heterogeneous Italian on-line magazines. The platform mainly grabs the news from magazines about small cities as they give more importance to small outlaw events, then Natural Language Processing and geolocation algorithms are involved. The result is a map where every pin correspond to an outlaw event.

### Key Projects & Achievements

- Back-end development: I developed using Java the Web crawler which grabs the news from on-line magazines using X-Path queries and later I developed the Web crawler which dynamically grabs the news following the dynamic algorithm “Automatic extraction of Logical Web Lists” that we released at ISMIS 2014, p365-374. Also, I developed the NLP algorithms for addresses, date, cities and outlaw events recognition for the Italian language. At least, I developed the algorithm for the news geolocation. I used Scala with the Akka actor system framework to develop an asynchronous platform to analyse news data.
- GNU/Linux system analyst: I was in charge of 4 physical and 6 virtual GNU/Linux machines, the latter under Xen Server. I did the full set-up from scratch. Some of them was using Nginx Web service with multiple websites, some MongoDB or PostgreSQL. I also set up Gitolite for code hosting and they all were members of a VPN.

- **Free and Open Source projects**

*Software Developer*

*Mar 2008 – Present*

I’m involved open source projects. I’ve been an Arch Linux developer for 7 years, I’m involved in KDE as Choqok maintainer and I develop applications for Sailfish OS.

### Key Projects & Achievements

- Arch Linux: I maintained the KDE Software Collection and its dependencies in the Arch Linux official repositories, for a total of almost 400 packages, for 7 years. My task was to build KDE from scratch and set the right dependencies, I had to report any compilation issues and for this reason I started to fix them myself and push the fix upstream to the community.
- Many bug fixing, some minor some not, in several Open Source projects using different technologies and programming languages.

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## Education & Credential

- **ISMIS 2014**

*Automatic Extraction of Logical Web Lists* P.F. Lanotte, F. Fumarola, M. Ceci, A. Scarpino, M.D. Torelli, D.Malerba

- **University of Bari “Aldo Moro”**

*B.S. Computer Science and Technologies for Software Production*

**Bari, IT**

*2007 – 2013*

- Bachelor’s degree in Computer Science and Technologies for Software Production, completed in 5 years with 96/110. This degree aims to produce experts with a good knowledge of the production, maintenance, control and evolution of Business and Middleware Applications, using software engineering methods and principles.
- My thesis is about the development of an automatic method to extract data from Web sites. The goal was to develop an algorithm for the extraction of lists of Data Records (named “multi-page Web lists”) from any Web site. Plus, the developed system expands those lists with the Data Records that are in others Web pages, of the same Web site, and that are inherent to the extracted list.

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## Core Technical Skills

**Primary Tech Stack:** Java, Shell Scripting

**Secondary Tech Stack:** C++, Rust, Ruby, JavaScript, Python

**Frameworks:** Qt, Angular.js, Rails, Express