**Andrea Lorenzani** | Senior SW Engineer

25, Arnos Grove Court, Palmers Road – N11 1RA London, UK

H Please contact me by email first • B work@andrea.lorenzani.name 10 years professional experience - Available in 1 month

**Domains of Competence**

* Online Grocery - Reports and Analytics
* Travel Industry (especially road and air transport)
* MES (Manifactory Execution Systems)
* BPM (Businness Process Management)
* Multithreading/Multiprocess/High performance environments
* SOA (BPEL, WSDL) and Integration and Adaptation of Web Services
* Research

**Computer Skills**

**Languages**: Scala, Java, Coff escript, Clojure, C++, Python

**Libraries**: Datomic, Spring, Akka, Logit/Logback, Groovy/MDC, Boost, STL, Hibernate **Databases**: Cassandra, Postgresql, Oracle, SQLite **Operating Systems**: Linux/Unix, Windows **Development methodologies**: Kanban, Scrum, TDD/BDD

**Continuous integration**: Jenkins

**Others**: AWS/Kinesis, ElasticSearch, Kibana, NewRelic, Jenkins, Git, Sbt, Maven

**Education**

**New Relic**

* + 1. New Relic instructor-led workshop, October 2016

**ICAgile**

*ICAgile Certifi d Professional (ICP), July 2016*

**PMI (Project Management Institute)**

***Certified Associate in Project Management (CAPM)****, April 2016*

* 1. Coursera Verified Certificates
		1. Introduction to Project Management Principles and Practices Specialization, September 2015

**Coursera**

*Functional Programming Principles in Scala, July 2015*

**Coursera**

*Programming Mobile Applications for Android Handheld Systems, 2014*

**Several language School (EC, Linguapolis, Don Quijote...)**

*8 language courses: 3 in English, 2 in Spansh, 3 in French, 2007-2013*

**University of Pisa Pisa**

*Master’s degree in Computer Science, 110/110 2002-2006*

**University of Pisa Pisa**

*Bachelor in Computer Science, 110/110 1999-2002*

**Work Experience**  Senior Scala and Java Engineer - Less than 2 years . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

 **Ocado Hatfield, UK**

* + 1. Senior Scala Engineer June 2015 - January 2017

I was working for the reporting team of the Customer Fulfilment Centre for the Ocado Smart Platform. My team provided figures of all the events generated by the warehouse in order to prevent problems and analyse the status of the delivery.

My work was based on Scala and Java, CoffeeScript, Clojure and Datomic over Cassandra and Git. I often have the role of Scrum Master.

Since June 2016 I have been in charge of a new project, the alerting system, that is used by Operations to monitor the status of all applications of the CFC. I have been involved in all level of development from the initial proposal to the delivery of the MVP, and then I was involved in additional development. I migrated the deployment process from Open Stack to AWS and I introduced Kinesis and ElasticSearch.

**Technical context:** Scala, Java, Clojure, Datomic, Cassandra, Nginx, New Relic, Git, AWS, ElasticSearch, Kinesis, Kibana, Akka, Scrum, Kanban  J2EE Senior Developer and SOA Expert (Consultant) - 3 years. . . . . . . . . . . . . . . . . . . . . . . . . . . .

**Elsag Datamat/Finmeccanica Genova, Italy**

* + 1. J2EE Senior Developer (Consultant) 2009 - 2010

My main role was to design dashboards for reports of the port authorities. But I also developed some interesting components, like the verifier for the digital sign or the upload/download component for the management system. **Technical context:** Java, J2EE, Windows, Linux, Oracle DB, Spring Framework, JSF (Java Server Faces), MyFaces, Orchestra, IceFaces, Ajax, Maven, Ant, Jboss, SVN, Axis, JAX-WS, Hibernate, Jackrabbit, Jasper Reports

* 1. Skyperform Torino, Italy
		1. J2EE Senior Developer/SOA Expert 2007 - 2009

Consultant for different clients, I was mainly involved as BPM analyst - designer of new workflows (in BPEL and SOA) for banks and food supply chain internal procedures **Technical context:** Java, J2EE, Windows, Axis, JAX-WS, Linux, Oracle DB, Hibernate, Spring Framework, Spring MVC, Oracle SOA Suite, BPEL, Ant, ESB, ServiceMix, LifeRay, DHTML Suite, Ajax

Senior C++ Engineer (Consultant) - 4 years and 9 months . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

* 1. Amadeus Sophia Antipolis, France
		1. Senior C++ Engineer 2010 - 2015

In this company I worked in 4 projects:

* **SMS Check In**: I was in charge of this component. I was fully involved in all levels of the software design and implementation, being for long periods of time the only person working on it. I did bug fixing, designing, implementation of new features, evolution to new architectures, improvement of the frameworks and management of the team involved, introducing agile methodologies.
* **Message Sequencing**: for a critical component with high traffic volume (more than 2 milions transactions per day) I developed a mechanism for robustness, implementing retrying mechanisms, automatic handling of outages, asynchronous message exchanges, improving concurrency, security items, and proactively taking part on decisions for the design.
* **Passenger Name Records exchange among GDSes**: I worked in this project for the decommissioning of an old legacy system. I was asked to make several redesign of the architecture in order to implement lot of new functionalities, to improve robustness, to optimize the security, to put data from static files to databases (SQLite and Oracle) and much more in order to have all the functionality in the new open backends.
* **Inbound and Outbound Passenger Name Lists**: for the Central System, I worked for the component that sends and receives the list of passengers for the Check In. The component was higly critical (milions of transactions per day and high customers impact). For that I mainly fixed bugs and I performed small improvements to keep it updated with the global changes of architecture

**Technical context:** C++, Boost, STL, Python, Linux, Jenkins, Oracle DB, Shell scripting, CVS, Mercurial, UML, Sharepoint, XP, Agile, Scrum, Valgrind, C++check, Django

*C#* Senior Developer (Consultant) - 1 year. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

* 1. Siemens Genova, Italy
		1. C# Senior Developer (Consultant) 2010 (7 months)

Developer of the MES (Manifactory Execution System), and its UI in ASP.NET. Point of Contact for one of the Hybrid Vertical Libraries (the one that handled Orders)

* 1. Optisoft Sarzana (SP), Italy
		1. C# Developer 2002 (6 months)

Stage for my Bachelor Thesis: Porting of one standalone application on a web portal designed in ASP.NET. Data were stored and retrieved from a SQLServer DataBase.

1. Personal competences
* Excellent written and oral communication skills
* Capable of working alone with no supervision
* Fast learner (in 4 months I was autonomous in Scala e Coff escript coming from C++)
* Good working and delivering during stress periods
* Management of projects (certifi d CAPM)
* Responsible for delivering respecting the milestones and the budget
* Leadership
* Motivated, proactive and curious/open minded about new technologies

**Language**

**Italian**: Mother tongue **English**: Fluent (certifi d C1) **French**: Fluent (certifi d B2) **Spanish**: Basic (Certifi d A2)

1. Interests
* **Computer Science:** Code Optimization, SEO, Algorithms, WEB, 3D, Mobile (Android course on COURSERA)
* **Photography:** Take pictures, photo retouching (GIMP and Photoshop)
* **Cinema:** Watching films, creating my personal videos
* **Sport:** Running, Cycling and dancing Salsa and Bachata