

# LUCA FILIPPONI

## PERSONAL INFORMATION

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## SUMMARY

I am a strongly motivated software engineer specialized in Java and Scala with a deep passion in computer science. I'm interested in algorithms, open source, the JVM and functional and reactive programming.

- Databases: Oracle Database, MySQL, SQLite.
- Software Versioning: Git, Mercurial, SVN.
- Testing: JUnit, Mockito, ScalaTest, Jmeter, Pact Jvm, Gatling.
- Server: TomCat, WebLogic Server, and embedded servers.
- CI: Jenkins, Bamboo.
- Cloud Platform: AWS (RDS, ECS-EC2, EMR).
- Build tool: Maven, SBT.
- Monitoring and Log: Dropwizard, Elasticsearch/kibana, Splunk.
- Big Data: Kafka, Spark.
- Frameworks: Spring, Akka (core, stream and http), RxJava/RxScala, Slick.

## WORK EXPERIENCES

### *2019/02 - present* Senior Software Engineer

Company: Elsevier, 1 Appold St, Hackney, London, United Kingdom.

Description: Working in big data department in the core-entities team, clustering entities between different systems. A mix of application and data engineering, harvesting data from various sources, sending to kafka, then performing clustering and make the result available via kafka and api. We are responsible of the infrastructure on AWS. The infrastructure is comprised by an EMR cluster, mysql databases (RDS), applications (docker containers using ECS-EC2) and a Kafka cluster. Tech used: Scala, Akka (stream and http), Kafka, Spark, Mysql, Terraform, AWS, EMR, Docker, ecs-ec2, elasticsearch/kibana, Graphite, Grafana and jenkins.

### *2017/11 - 2019/02* Software Engineering

Company: eBay, Heron Square, Richmond - London, United Kingdom.

Description: Java/Scala developer for B2C in the eBay European Product development. Working on maintaining and delivering new functionality of the eBay public account API (<https://developer.ebay.com/api-docs/sell/account/static/overview.html>) and on the internal systems used for dealing with VAT numbers. The services are under haeavy load: one has an average of 800 millions hits/day. The applications varies from pure Java/Scala to a mix of them

### *2016/06 - 2017/11* Software Engineering

Company: Hotels.com (Expedia Inc)

Description: I'm part of a team that develops and maintains REST web services used from the apps (ios/android/appletv) and a chatbot. The services are "edge", we expose endpoint to the public internet that acts as a gateway to all other internal services. The main language is Java, with many libraries to satisfy all the needs. Git with Atlassian Stash for versioning, docker and bamboo for deployment. I've acquired experience working with the kanban method, interacting with product manager and scrum master. I've acquired knowledge about the software development, starting from writing task for a development story, until monitoring the application using grafana dashboard and splunk log after the deploy in production.

2014/12 - 2016/05      Software Engineering

Company: Telecom Italia S.p.A

Description: Java developer for the Business Support System, exposing web services for the eCommerce functionalities of the new Telecom Italia and Tim online portal, comprising of customer care and dealer. Through this experience I've raised my knowledge in the Java language, and learned many new technologies, such as Web Logic server, Oracle ATG, Endeca Search, Oracle Coherence and Spring MVC.

2014/06 - 2014/11      Software Engineering

Company: IDlike S.r.l

Description: Software Engineering in J2EE environment. Through this job I have gained good experience using Java language, and on many of the technologies related to web programming: TomCat web server, Oracle DB, CSS, html and javascript. Was done also some study of Cloudera manager, Hadoop and Hive.

#### CONTINUING EDUCATION COURSES

2015/02 - 2015/04      Oracle University

During my work experience in Telecomitalia, I have taken courses on Oracle Products, obtaining a good knowledge about java enterprise framework (ATG, Endeca and Coherence) and java programming:

- Oracle Commerce: Platform Fund for Developers Rel 11.1
- Oracle Commerce: Customizing The Commerce Platform Rel 11.1
- Oracle Commerce: Implementing Guided Search 11.1
- Oracle Coherence 12c: Administer and Troubleshoot Clusters
- Oracle Coherence 12c: Share and Manage Data in Clusters
- Oracle WebLogic Server 12c: Administrations

#### EDUCATION

2012/01 - 2015/01      Master degree: Computer Engineering

University: "La Sapienza", Rome, Italy

Final mark: 110/110 cum Laude

Thesis: *"A study on political election prediction through the analysis of large data-sets from social networks"*

Specialization: Distributed System and Architectures

Description: Thesis developed using Java/C++ Language, the aim was to predict the results of the European Political Election took place in May 2014, using clustering algorithms on data from social network. The field involved were data mining, machine learning and natural language processing. In the thesis was widely used the Hadoop, Mahout and graphlab frameworks for distributed computing.

2008/10 - 2011/12      Bachelor degree: Computer Engineering

University: "La Sapienza", Rome, Italy

Final mark: 97/110

Thesis: *"Data mining, management and monitoring in a Grid/Cloud architecture"*

Description: Thesis developed in Java language, the scope was to create a program that retrieves log file from a Cloud environment, parsing and storing information in a relational database, allowing a further analysis using Olap Cube technique.

2003 - 2008      Scientific High School Diploma

School: "Plinio Seniore", Rome, Italy

#### ADDITIONAL EXPERIENCES

7/2/2017

### eBay Hackaton

7 Days Internal eBay hackathon. Converted a service using the reactive programming paradigm, allowing to use less nodes reducing hosting cost.

7/2/2017

### Hotels.com Hackaton

24 hours Internal hotels.com hackathon. Development of "dash button" for hotel booking, using a flic button.

30/8/2016

### Hotels.com Hackaton

24 hours Internal hotels.com hackathon. Development of telegram bot for travel advice and hotel listing.

29/3/2014

### Maker Hackaton

Making Contest, in which inside a team, I have created a smart alarm clock using Arduino. The clock was capable to connect on internet and check for weather, in case of rain the alarm would have rang earlier

## LANGUAGES

ITALIAN : Mothertongue

ENGLISH : Fluent

PORTUGUESE : Advanced

## ADDITIONAL INFORMATION

Passionate about music, sports, technologies and science. I like playing guitar and I have practiced artistic gymnastic in a competitive level, scout activities at AGESCI Roma 87 from 1997 to 2004.