

Simone Agostinelli

Curriculum Vitae

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Personal Information

First name Simone
Last Name Agostinelli
Address Via Erasmo Gattamelata 140, 00176 Rome (Italy)
Date of birth 11/08/1993
Nationality Italian

Education

November 2018 **Ph.D. Course**, *Sapienza University of Rome*, Rome.
current Ph.D. program in Engineering in Computer Science. My research area is Business Process Management (BPM) with particular focus on Process Mining, Robotic Process Automation (RPA) and Automated Planning for BPM.
October 2015 **Master's Degree**, *Sapienza University of Rome*, Rome, 109/110.
January 2018 Master of Science in Engineering in Computer Science - Software and Services specialization
October 2012 **Bachelor's Degree**, *Sapienza University of Rome*, Rome, 98/110.
October 2015 Bachelor of Science in Engineering in Computer Science and Control Engineering
September 2007 **Diploma**, *I.T.I. G. Lattanzio*, Rome.
June 2012 Perito Industriale Capotecnico Informatico (Progetto "ABACUS")

Master's Thesis

Title *Applying process mining techniques in a real healthcare case study*
Advisor Prof. Massimo Mecella
Description The objective of the thesis consists to apply process mining techniques, on a real case of an hospital in Rome, in order to obtain meaningful knowledge about typical paths followed by particular groups of patients. Using a variety of process mining techniques, the derived healthcare processes are analysed from different perspectives. For doing that, relevant event logs were extracted from the hospital information system and analyzed using the ProM framework. The results show that process mining can be used to provide new insights that facilitate the improvement of existing careflows.
Link of the slides: <https://www.slideshare.net/secret/2Q47KWSn9fp8f9>

Bachelor's Thesis

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|-------------|---|
| Title | <i>Sistema di prenotazione posti remoto</i> |
| Supervisor | Prof. Francesco Quaglia |
| Description | designing and implementation (in C-UNIX) of a client/server application where a user can ask for a reservation of a place in the cinema room. |

Teaching Activities

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|--------------------------|---|
| November 2018 current | Tutor , <i>Sapienza University of Rome</i> , Department of Computer, Control and Management Engineering Antonio Ruberti, Via Ariosto 25 00185 Rome. Teaching assistant for the "Progettazione del Software" course, in the Bachelor's Degree in Computer and System Engineering |
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Working Experience

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|-------------------------------|---|
| March 2018 | Analyst Consultant , <i>Capgemini</i> , Via di Torre Spaccata 140, 00173 Rome. |
| October 2018 | Working on the service line Big Data Computing for Sky Deutschland. The projects in questions focus on the development of Spark jobs on top of the following technologies: Hadoop, Hive, Impala, Kudu, Kafka, Elasticsearch. |
| January 2018 February 2018 | Software Development Engineer , <i>internship in ALTEN Italia</i> , Via Adolfo Ravà 124, 00142 Rome. Working for TIM's SPID project both on back-end and front-end sides. |
| June 2011 | Programmer , <i>internship in INFN (Istituto Nazionale di Fisica Nucleare) di Frascati</i> , Via Enrico Fermi 40, 00044 Frascati (Rome). Design of a computing center able to handle at least 1800 TByte of data, using C language for UNIX machines. |

Programming languages

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|--------------|---|
| Basic | HTML, XML, CSS, JavaScript, PHP, SQL, Assembly, C++ |
| Intermediate | Python, Android, C |
| Advanced | Java |

Computer skills

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|--------------------|--|
| Operating Systems | Windows: daily use for internet surfing and Java/Python programming. Linux: used both for C programming and personal curiosity. |
| Office Automation | LaTeX, OpenOffice, LibreOffice, Microsoft Office |
| Modeling Languages | Unified Modeling Language (UML), Entity-Relationship (ER) |
| Known IDE | IntelliJ Idea, Eclipse, Netbeans, Android Studio |
| Standards | HTTP, Rest, Soap, TCP/IP, SSL, SSH |
| Methodologies | Waterfall, Agile (Scrum), eXtreme Programming |
| Frameworks | Spring, Hibernate, MG4J, Hadoop MapReduce, Apache Spark |

Others Arduino, Maven, Git, Virtualbox, Tomcat, OracleDB, MySQL, ActiveMQ, Kafka, ProM, Bizagi Modeler, Bizagi Studio, Netkit, Wireshark, SoapUI, Elasticsearch, Kibana, Hive, Impala, Kudu

Others

Communicative skills Very good communication skills in a development environment where teamwork prevails

Organizational and management skills Ability to work in stressful situations respecting expiration dates, behaviour matured during university courses and improved in the working period. Excellent problem solving skills

Professional skills Good knowledge of cabling and network topologies

Driving license A2, A, B

Languages

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|---------|----------------------|-------------------------------------|
| Italian | Mother tongue | |
| English | Intermediate | <i>Conversationally fluent</i> |
| French | Basic | <i>Basic words and phrases only</i> |

Interests

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| - music | - videogames |
| - stay with friends | - sport |

Projects done during the Master's Degree

June 2017 **Diag Missions Managment:** When a professor wants to leave for a scientific mission, he/she has to follow some predefined guidelines before he/she can start. The goal of this project is to write down from scratch the process of starting/handling/ending the mission using a tool named Bizagi Modeler, and then, run the process model just obtained using Bizagi Studio which allow a professor to go through all the steps for start the mission, like reality.
Link of the project: <https://www.slideshare.net/secret/nwVsMcqFpS61d1>

April 2017 **The 64Base Boot2Root challenge (Penetration testing):** it is based on the Star Wars storyline where the objective of the challenge is to remotely gain root privileges on the target machine by collecting six flags: the last one will allow the attacker to log into the target system as the root user.
Link of the project: <https://www.slideshare.net/secret/6qxI1KBpxEY65z>

January 2017 **Cinema Recommender System:** Android application which allow an user to search the cinemas around him using the google maps API. The cinemas are searched within a radius that range from 0 to 10 kilometers: the user will select it before starts the search. After displayed the cinemas on the map, the user can either select one by tapping on the screen or select one based on users rating. Then, after chosen the cinema, the path from the current position of the user to the just selected cinema will be built in order to allow the user to go toward it.

September 2016 **Multimode device file:** The project consists to develop a Linux kernel subsystem, that is, a special device file accessible according to a FIFO style semantic (open/close/read/write services).

Link of the project: <https://www.slideshare.net/secret/EzSVuDMSObPUNs>

List of exams taken during the Master's Degree

| Course | Mark | Date |
|---|--------------|------------|
| Algorithm design | 29/30 | 04/02/2016 |
| Distributed systems and computer and network security | 24/30 | 23/06/2016 |
| Advanced programming | 29/30 | 27/06/2016 |
| Data management | 22/30 | 06/07/2016 |
| Software engineering | 28/30 | 25/07/2016 |
| Advanced operating systems and virtualization | 30/30 | 02/09/2016 |
| Network infrastructures | 30 cum laude | 16/01/2017 |
| Formal methods | 28/30 | 25/01/2017 |
| Mobile applications and cloud computing | 28/30 | 12/01/2017 |
| Artificial intelligence and machine learning | 27/30 | 10/02/2017 |
| System and enterprise security | 30/30 | 13/06/2017 |
| Web information retrieval | 28/30 | 22/06/2017 |
| Process and service modeling and analysis | 30/30 | 26/06/2017 |
| Seminars in software and services for the information society | passed | 22/09/2017 |
| Final Exam | passed | 15/01/2018 |

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