



Salvatore D'Angelo

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Gender: Male **Date of birth:** 03/20/1986 **Nationality:** Italian

WORK EXPERIENCE

[02/20/2022 – 09/30/2022]

University Professor

Università della Campania L.Vanvitelli

City: Aversa

Country: Italy

Advanced Software Engineering Course: BPMN, Docker, Kubernetes, SOA, REST API, WSDL, Architectural Patterns, Design Patterns, Agile methods(Scrum, XP, DevOps), Code Analysis

[01/01/2022 – Current]

Research Scientist

Università della Campania L.Vanvitelli

City: Aversa

Country: Italy

The research activity involves the analysis, definition, and application of innovative Machine and Deep Learning methods and techniques, as well as Pattern-based and automatic code transformation techniques, to support and automate the design, componentization, deployment, and dynamic and adaptive management of distributed and high-performance software systems on the Cloud-Edge Computing continuum

[02/28/2021 – 03/31/2023]

University Professor

Università della Campania L.Vanvitelli

City: Aversa

Country: Italy

Lecturer of the course "Mobile Application Development Lab": Flutter framework, Firebase Integration, BLoC pattern.

[06/30/2019 – Current]

Research Scientist

C.I.N.I. - Consorzio Interuniversitario Nazionale dell'Informatica

Address: Roma, Italy

City: Roma

Country: Italy

Machine Learning and Natural Language Processing applied to highly specialized domains (Named Entity Recognition, Relation Extraction, Entity Linking, NLP Model-as-Service, Model Training as-Service). Proof-of-Concept production of distributed microservices for execution and delivery of the developed functionalities.

[11/25/2018 – 12/31/2022]

Professional Trainer

BcSoft S.r.l.

Address: Napoli, Italy

Country: Italy

Courses delivered: **Openshift Developer** (Kubernetes, Openshift Architecture, Minishift), **Boomi Integration Platform, Docker** (docker, docker-compose, docker swarm), **Business Process Management, ADMINISTRATIVE ESSENTIALS FOR NEW ADMINS IN LIGHTNING EXPERIENCE (ADX-201), Academy DevOps** (Cloud Computing, Distributed Architectures, Microservices Architectures, Docker, Kubernetes, Openshift, Helm, Operator, ELK Stack), **Google Cloud Platform** (Digital Transformation, Distributed Architectures, Docker, Kubernetes, Helm, ELK Stack, Terraform), **Kubernetes, Openshift Developer, MuleSoft, Splunk Enterprise**

[03/23/2018 – Current]

Co-Founder

Geekers S.r.l

Address: Aversa, Italy

Multi-platform Application Development (Flutter, Dart, Firebase, Supabase, AWS Amplify, Appwrite)

Microservices Architectures (Kubernetes, Docker, Helm, Terraform, Pulumi, Angular, Flutter Web, Flask, FastAPI, Django, Postgres, GraphQL, GoLang)

Professional Training (Flutter, Dart, Kubernetes, Docker, Helm, Terraform, Openshift)

[10/03/2021 – 12/10/2021]

Technical Architect

Healthware Group

City: Salerno

Country: Italy

Follow an internal product, in implementing new features and migrating a native iOS project to Flutter.

Tutor undergraduate students as part of a project in collaboration with the University of Salerno.

Defining and implementing a component of a mobile application in health and digital therapies.

[05/31/2021 – 10/30/2021]

Professional Trainer

CINI - Consorzio Interuniversitario Nazionale per l'Informatica

City: Roma

Country: Italy

Architectural Models - Containers (Docker and Kubernetes) - Digital Transformation - Microservices for Continuing Qualification of IT Personnel of the Ministry of Justice Administration.

[07/15/2020 – 10/02/2021]

Information Technology Officer

Università degli studi della Campania "L.Vanvitelli"

City: Caserta

Country: Italy

Web application design and development with integration into existing systems (Java, Vaadin Framework and Python, Django, Go).

Technical support. Elearning platform integration (Moodle) with Microsoft collaborative tools (Microsoft Teams, Office 365).

[04/08/2020 – 07/14/2020]

Research Scientist

Universita degli studi della Campania "L.Vanvitelli"

City: Caserta

Country: Italy

"Algorithms and techniques for the analysis of data from sensors and sentiment analysis on data from mobile devices and/or social networks" funded under the ROP ERDF 2014/20 - Project "Quick&Smart"

The focus of my research is the analysis of data from fiber optic sensors, in particular, intelligent traffic monitoring can be realized using different technologies, which include the use of video cameras, magnetic sensors, radar systems, lidar, wireless sensor networks, etc.

[12/17/2017 – 12/16/2019]

Elearning Platform Manager

Università degli studi della Campania "L.Vanvitelli"

Address: Caserta, Italy

Analysis, Design, and Management of Information Technology Platforms and Services. Advanced e-learning using BigData and Semantic technologies

[11/28/2016 – 07/30/2019]

University Tutor

Università degli studi della Campania "Luigi Vanvitelli" - DIII

Address: Aversa, Italy

Activities aimed at remedial teaching: summary seminars on the contents of the Programming Elements (C language) course, verification of design papers, practical and numerical exercises, student reception.

[01/15/2017 – 12/21/2017]

Research Scientist

CINI - Consorzio Interuniversitario Nazionale per l'Informatica

Address: Aversa, Italy

As part of the European project Toreador, I have been working on:

- Big Data Analytics and Technologies and platforms for data processing and analysis in Big Data (e.g. Storm, Spark, Flink)
- Tools and techniques for building compilers (Abstract Syntax Tree, Dependency Graph)
- Design Patterns and Cloud Patterns
- Programming on major Cloud IaaS, PaaS, and SaaS Platforms (e.g. OpenStack, Azure, AWS, Bluemix, Docker, OpenShift, etc.)
- Python Language, Python AST, ParallelPython
- Flask - Python Web Server
- Swagger - API rest
- Anaconda Framework, Jupyter Notebook

[09/04/2016 – 10/07/2016]

Software developer

Seconda Università di Napoli - Dipartimento di Scienze politiche "Jean Monnet"

Address: Caserta, Italy

Development of a web platform for creating interactive tourist routes through the use of Raspberry Pi and Arduino

EDUCATION AND TRAINING

[09/30/2016 – 01/23/2020]

Ph.D

Università degli studi della Campania "L.Vanvitelli" www.unicampania.it

Address: Aversa, Italy

Final grade: Ottimo **Level in EQF:** EQF level 8

Thesis: Parallelizing compiler techniques for multi Cloud and Big Data platforms

Ph.D. at the Department of Industrial and Information Engineering, University of Campania "L.Vanvitelli"

Design and Development of a skeleton-based source-to-source compiler and libraries for automatic deployment to distributed big data platforms and high-performance computing. Lectures in Software Engineering, Knowledge Engineering and Big Data, and High-Performance Computing.

[06/17/2018 – 06/18/2018]

High-performance computing with Python

Jülich Supercomputing Centre

Address: Jülich, Germany

- Interactive parallel programming with IPython
- Profiling and optimization
- High-performance NumPy
- Just-in-time compilation with numba
- Distributed-memory parallel programming with Python and MPI
- Bindings to other programming languages and HPC libraries
- Interfaces to GPUs

[01/21/2018 – 01/25/2018]

Winter School

Universitate de Vest

Address: Timisoara, Romania

BigDat2018 - 4th International Winter School on Big Data, Timișoara (Romania)

<http://grammars.grlmc.com/BigDat2018/>

BigDat 2018 will be a research training event with a global scope aiming at updating participants about the most recent advances in the critical and fast-developing area of big data, which covers a large the spectrum of current exciting research and industrial innovation with an extraordinary potential for a huge impact on scientific discoveries, medicine, engineering, business models, and society itself.

Renowned academics and industry pioneers will lecture and share their views with the audience.

[09/08/2013 – 07/20/2016]

Master's Degree in Computer Engineering

Seconda Università di Napoli

Address: Aversa, Italy

Level in EQF: EQF level 7

Dissertation: Natural Language Processing techniques applied to software engineering: Automatic production of UML diagrams from requirements analysis.

Graduation grade:110/110 cum laude

[08/31/2006 – 10/08/2013]

Bachelor's Degree in Computer Engineering

Seconda Università di Napoli

Address: Aversa, Italy

Level in EQF: EQF level 6

Dissertation: Energy-oriented Denial of Service on Mobile Devices.

- 1- Study of energy models of mobile devices;
- 2- Denial-of-Service attack types;
- 3- Energy-oriented Denial-of-Service;
- 4- Implementation and testing of energy-oriented DoS on modern smartphones, with an evaluation of the impact on average battery life.

Grade 96/110

[09/09/1999 – 06/09/2004]

Scientific High School

Liceo Scientifico "F.Quercia"Marcianise

Address: Liceo Scientifico "F.Quercia"Marcianise, Italy

Field(s) of study: Liceo Scientifico "F.Quercia"Marcianise

Level in EQF: EQF level 4

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2

DIGITAL SKILLS

Sistemi operativi Windows, Linux | Sql/MySQL | Python (avanzato) | Big Data | Conoscenza dei fondamenti di Analisi dei Dati, Big Data, Machine Learning | Programmazione C, Java e Python | Sviluppo applicazioni mobile | Flutter/Dart | Conoscenza base Julia | Conoscenza base di MATLAB | Linguaggi Web: HTML, CSS, PHP, jQuery | JavaScript (Browser, NodeJS) | Business Process Model and Notation (BPMN) | Docker/Kubernetes | RedHat OpenShift Containers Platform | Google Cloud Platform | Subversion, GIT | GraphQL | REST API | Hashicorp Terraform | Principali sistemi operativi (MacOS Windows Linux) | Database Relazionali (MySQL, etc.) | Conoscenza base Mulesoft | Infrastructure as Code | Go Lang

PUBLICATIONS

[2020]

[Automatic Classification of Road Traffic with Fiber Based Sensors in Smart Cities Applications](#)

Reference: https://doi.org/10.1007/978-3-030-58811-3_3

[2016]

[Automatic production of an ontology with NLP: Comparison between a Prolog based approach and a Cloud approach based on Bluemix Watson service](#)

Reference: <https://doi.org/10.1109/CISIS.2016.98>

[2017]

[A platform for MBDAaaS based on patterns and skeletons: The python based algorithms compiler](#)

Reference: <https://doi.org/10.1109/ICNSC.2017.8000126>

[2018]

[Parallelization and Deployment of Big Data algorithms: the TOREADOR approach](#)

Reference: <https://doi.org/10.1109/WAINA.2018.00120>

[2018]

[Parallel Primitives for Vendor-Agnostic Implementation of Big Data Mining Algorithms](#)

Reference: <https://doi.org/10.1109/WAINA.2018.00118>

[2018] **[Rock Algorithm parallelization with Treador primitives](#)**

Reference: <https://doi.org/10.1109/WAINA.2018.00119>

[2018]

[A fast and incremental development life cycle for data analytics as a service](#)

Reference: <https://doi.org/10.1109/BigDataCongress.2018.00030>

[2019]

[A Compiler for Agnostic Programming and Deployment of Big Data Analytics on Multiple Platforms](#)

Reference: <https://doi.org/10.1109/TPDS.2019.2901488>

[2022]

[A Big Data Pipeline and Machine Learning for a Uniform Semantic Representation of structured Data and Documents from Information Systems of Italian Ministry of Justice](#)

Reference: DOI: 10.4018/IJGHPC.301579

[2020]

[A Methodology based on Computational Patterns for Offloading of Big Data Applications on Cloud -Edge Platforms.](#)

Reference: <https://doi.org/10.3390/fi12020028>

[2022]

[Anomalous Witnesses and Registrations Detection in the Italian Justice System Based on Big Data and Machine Learning Techniques](#)

[2022] **[A Microservices Based Architecture for the Sentiment Analysis of Tweets](#)**

[2022]

[Semantic Based Knowledge Management in e-Government Document Workflows: A Case Study for Judiciary Domain in Road Accident Trials](#)

Reference: DOI: 10.1007/978-3-031-08812-4_42

CONFERENCES AND SEMINARS

[10/13/2015 – 10/13/2015] **"Head in the Clouds"** Roma

organized by IBM at the IBM headquarters in Rome.

Presentation of the project, "Watson Ontology Population."

[06/30/2020 – 07/03/2020]

DASPA 2020 : The International Workshop on Data Stream Processing and Applications

Cagliari

"Automatic Classification of Road Traffic with Fiber Based Sensors in Smart Cities Applications."

Link: <https://iccsa.org/workshops>

[05/15/2017 – 05/17/2017]

2017 IEEE 14th International Conference on Networking, Sensing and Control (ICNSC)

Falerna Marina, Calabria

"A platform for MBDAaaS based on patterns and skeletons: The python based algorithms compiler"

Link: <http://icnsc2017.dimes.unical.it/>

[06/29/2022 – 07/01/2022]

The 16-th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2022)

Japan

INTERNATIONAL WORKSHOP ON SEMANTIC WEB/CLOUD INFORMATION AND SERVICES DISCOVERY AND MANAGEMENT SWISM-2022

[04/13/2022 – 04/15/2022]

The 36th International Conference on Advanced Information Networking and Applications (AINA-2022)

Sydney

CLOUD COMPUTING PROJECT AND INITIATIVES - CCPI'22

PROJECTS

[01/15/2017 – 12/21/2017] **TOREADOR**

European project under the H2020 program.

TOREADOR introduces appropriate standardization models that will support the automation and commoditization of Big Data analytics while enabling easy adaptation to domain-specific customer needs.

In addition to templates to represent all aspects of BDA, TOREADOR aims to release an architectural framework and set of components for model-driven setup and management of Big Data analysis processes.

Link: <http://www.toreador-project.eu/>

ORGANISATIONAL SKILLS

Pratico e razionale

Pratico e razionale nella risoluzione di problemi organizzativi. Capacità di lavorare in gruppo e in situazioni di stress. Dotato di spirito di iniziativa e di innovazione. Determinato e puntuale.

COMMUNICATION AND INTERPERSONAL SKILLS

Affidabile e Positivo

Atteggiamento positivo all'apprendimento, affidabile, motivato, creativo, estroverso, spiccate capacità comunicative e proprietà di linguaggio.

ALTRE COMPETENZE

Open mind

I like to learn not only what is related to Information Technology.

From programming to artificial intelligence, from physics to chemistry books, anything I can read/listen to.

Passionate about music, mainly Rock, although lately I mainly listen to podcasts.

Passionate about engines and mechanics, lover of sports especially running, biking, cross fit and functional training.

Introverted, proud, creative, humble, honest.

PERSONAL DATA PRO- CESSING

Personal Data Processing

I authorize the processing of my personal data in accordance with Italian Legislative Decree No. 196 of June 30, 2003, "Code for the protection of personal data".
