



# Giovanni Brunetti

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## ABOUT ME

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Big Data Engineer since 2020 in the Energy and Telco Providers sector.

Among the various experiences:

- Data modeling and data partitioning in the Google Cloud Platform environment
- Dataflow job development with Scala for Ingestion and ETL purposes
- Data preparation, Data modeling and data partitioning in the Cloudera environment
- Job Spark development for Ingestion and ETL

## WORK EXPERIENCE

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### Big Data Engineer

**Agile Lab** [ Oct 2022 – Current ]

Country: Italy

Big Data Engineer

### Big Data Engineer Consultant

**German TV Company** [ Jan 2021 – Sep 2022 ]

Important project for German telecommunications company.

Main Topics:

- Data modeling and data partitioning in a Google Cloud Platform ecosystem using Big Query.
- Development of Dataflow job using Scala for Ingestion and processing realtime data (Avro) ingested by Kafka with Dataflow.
- Development of Airflow DAGs using Python to perform ETL operations on data for DWH.
- DWH implementation

### Big Data Analyst Consultant

**Italian Telephone Company** [ Sep 2020 – Feb 2021 ]

Big Data Analyst on Italian telecommunication Project. The main task was to write some guideline documents about the main approaches and best practices in a Big Data platform and its reference environment. The two documents were mostly on Big Data development and architecture with particular attention on the following points:

- Software component structure and code documentation.
- Git integration Strategy (with particular focus on branching models like Git-Flow and GitHub-Flow, code and environment promotion).
- Data Lake principles (data ingestion, data preparation, data exporting, testing).
- Lambda architecture, data modeling, data preparation, partitioning.
- Analysis for migration of Cloudera Ecosystem to Google Cloud Platform.

## **Big Data Engineer Consultant**

**Italian Energy Company** [ Dec 2019 – Oct 2020 ]

Big Data Engineer for an important Italian energy company.

Main topics:

- Development of Apache Spark batch jobs using Scala for ingestion and processing of Avro file landed in HDFS.
- Design and development of Data Quality Spark Processing Jobs for reports based on Hive and Impala.
- Data preparation, data modelling and data partitioning.
- Highly focused on transformation and analysis phase of the data for reporting phase.

## **Big Data Engineer**

**VT Solutions & Consulting** [ Jan 2020 – Sep 2022 ]

City: Rende

Country: Italy

Working on various internal and external (as a consultant) projects in Big Data field.

## **LANGUAGE SKILLS**

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Mother tongue(s): **Italian**

Other language(s):

**English**

**LISTENING B2 READING B2 WRITING B1**

**SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1**

## **EDUCATION AND TRAINING**

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### **GCP Professional Data Engineer**

**Google Cloud** [ 8 Jul 2022 – 8 Jul 2024 ]

<https://cloud.google.com/>

<https://www.credential.net/470d1fe8-1a20-41af-961f-096835a17255>

### **Master Degree in Computer Science**

**Università della Calabria - Department of Mathematics and Computer Science** [ 2017 – 2021 ]

Address: 87036 Rende (Italy)

<https://www.unical.it/portale/>

Field(s) of study: Information and Communication Technologies

Level in EQF: EQF level 7

BUSINESS INTELLIGENCE AND ANALYTICS, COMPUTER GRAPHICS AND GPGPU PROGRAMMING, GAME PROGRAMMING, INTELLIGENT SYSTEMS, KNOWLEDGE REPRESENTATION AND SEMANTIC WEB, MOBILE AND SOCIAL COMPUTING, THEORETICAL COMPUTER SCIENCE, AGILE SOFTWARE DEVELOPMENT FOR ENTERPRISE, BUSINESS GAME, BUSINESS PROCESSES DESIGN, MANAGEMENT, AND OPTIMIZATION, MACHINE LEARNING, PROJECT MANAGEMENT, PARALLEL ALGORITHMS AND DISTRIBUTED SYSTEMS

## **Bachelor Degree in Computer Science**

**Università della Calabria - Department of Mathematics and Computer Science** [ 2013 – 2017 ]

Address: 87036 Rende (Italy)

<https://www.unical.it/portale/>

Field(s) of study: Information and Communication Technologies

Level in EQF: EQF level 6

Thesis: RDF Ontology Query for a Question Answering System

MATHEMATICAL ANALYSIS, PHYSICS, FOUNDATIONS OF INFORMATICS, ECONOMICS AND BUSINESS ORGANIZATION, DISCRETE MATHEMATICS, OBJECT-ORIENTED PROGRAMMING, ENGLISH, ALGORITHMS AND DATA STRUCTURES, COMPUTER ARCHITECTURE, DATABASES, CALCULATION OF PROBABILITY AND STATISTICS, INTEGRAL CALCULATION, GRAPHICS COMPUTER SCIENCE, GRAPHIC INTERFACES AND EVENT PROGRAMMING, OPERATIONAL RESEARCH, ETHICAL AND LEGAL ASPECTS OF COMPUTER SCIENCE, PROCESS MINING, SOCIAL NETWORKS AND NEW MEDIA, SOFTWARE ENGINEERING, ARTIFICIAL INTELLIGENCE, FORMAL LANGUAGES AND COMPILERS, INFORMATION SYSTEMS FOR THE WEB, OPERATING SYSTEMS AND NETWORKS

## **PET B1**

**University of Cambridge** [ Oct 2012 ]

<https://www.icloud.com/icloudrive/0NFliSrsMi3tyW8ZlZu8LOw-A#pet>

## **Astronomer Certification DAG Authoring for Apache Airflow**

**Astronomer** [ 12 Apr 2022 ]

[https://www.credly.com/badges/1f1da504-b57b-48d7-8072-fef4f4986b63/public\\_url](https://www.credly.com/badges/1f1da504-b57b-48d7-8072-fef4f4986b63/public_url)

## **Astronomer Certification for Apache Airflow Fundamentals**

**Astronomer** [ Feb 2022 ]

[https://www.credly.com/badges/f424a105-4f82-4de6-91bf-70a299052e09/public\\_url](https://www.credly.com/badges/f424a105-4f82-4de6-91bf-70a299052e09/public_url)

## **Google IT Automation with Python**

**Coursera | Google** [ Jul 2021 ]

<https://www.coursera.org/account/accomplishments/specialization/certificate/MJEDKUL6CEKU>

<https://coursera.org/share/ba7869018a8949a61f5cb3aceff1e3fe>

## **CodinGame Certification - Scala**

**CodinGame** [ Feb 2022 ]

<https://www.codingame.com/home>

## **Data Engineering with Google Cloud Specialization**

**Coursera** [ Dec 2020 ]

<https://www.coursera.org/account/accomplishments/specialization/certificate/57H9JBQYSXS7>

<https://www.coursera.org/account/accomplishments/specialization/certificate/57H9JBQYSXS7>

## **Secondary school diploma: Business High School**

**Italian Secondary School: ITAS ITC** [ 2013 ]

<http://www.itasitcrossano.edu.it/>

Field(s) of study: Business, administration and law , Information and Communication Technologies

<https://www.icloud.com/icloudrive/0TEk9BS9uPXnbfDgowss2SOcQ#DIPLOMA>

## **TRAINING: Study and use of a Big Data ecosystem**

**VT SOLUTIONS & CONSULTING** [ Nov 2019 – Jan 2020 ]

Address: 87036 Rende (Italy)

<http://www.vtsolutions.it/>

Field(s) of study: Information and Communication Technologies : *Software and applications development and analysis*

## **DIGITAL SKILLS**

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### **My Digital Skills**

#### **Programming Languages and Similar**

Scala / Parallel Programming (MPI, OpenMP) / Answer Set Programming / Web Development HTML 5 CSS  
JavaScript / Active Server Pages / OpenGL / Java / C, C++, C# / Unity 2D/3D / PERL (elementary proficiency for parsing) / Android Studio (sviluppo mobile Android) / Python

#### **Big Data Skills**

Hadoop (Hive Spark) / Hive / Dataflow / impala / Bigtable / BigQuery / Apache kafka / Apache Airflow / Apache Spark

#### **Generic Skills**

Google Cloud Platform (GCP) / Design Patterns / GIT (GitHub) / Tools: Eclipse, IntelliJ, Maven, SVN, Git, LATEX / Docker containers / Continuous Integration / Clean Code / SBT / Unit Testing / Jira / Microsoft Office / Spring Maven / Apache Tomcat / Agile (Scrum) / Web Browsers / Object-Oriented Programming / Code Review / Confluence

#### **DataBase and Data Analysis**

JSON / Pentaho / SQL / Apache Parquet / csv / Apache AVRO / Relational databases / Tableau (data analysis)

## **HONOURS AND AWARDS**

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### **Best Student Machine Learning**

Università della Calabria - Department of Mathematics and Computer Science [ 4 Nov 2019 ]

Best Student in Machine Learning Certificate

[https://www.icloud.com/icloudrive/04QwjTu42vB1e1-0HA5CC-mg#bs\\_machine\\_learning](https://www.icloud.com/icloudrive/04QwjTu42vB1e1-0HA5CC-mg#bs_machine_learning)

### **Attendance course at ETC International College, Bournemouth, Inghilterra**

ETC International College, Bournemouth [ 4 Oct 2012 ]

Certificate of attendance for PET preparation course at ETC International College, Bournemouth, Inghilterra

[https://www.icloud.com/icloudrive/0z\\_FGaHDIwb5aYkFD03TKBF1Q#ETC\\_Certificate](https://www.icloud.com/icloudrive/0z_FGaHDIwb5aYkFD03TKBF1Q#ETC_Certificate)

## **DRIVING LICENCE**

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**Driving Licence:** A1

**Driving Licence:** B