Giovanni Brunetti

Nationality: Italian   **Date of birth:** 30 Aug 1994   **Gender:** Male

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in **LinkedIn:** www.linkedin.com/in/gb1609

⊙ **Instagram:** https://www.instagram.com/g1b1609/

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ABOUT ME

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

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

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B1

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

EDUCATION AND TRAINING

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/iclouddrive/0NFIiSrsMi3tyW8ZlZu8LOw-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

Astronomer Certification for Apache Airflow Fundamentals
Astronomer [Feb 2022]

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/iclouddrive/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

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 / Continous 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 / Penthao / SQL / Apache Parquet / csv / Apache AVRO / Relational databases / Tableau (data analysis)

HONOURS AND AWARDS

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/iclouddrive/04QwjtTu42vB1e1-0HA5CC-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/iclouddrive/0z_FGaHDIwb5aYkfD03TKBF1Q#ETC_Certificate

DRIVING LICENCE

Driving Licence: A1
Driving Licence: B