Giovanni Brunetti

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

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

[Jan 2021 – Current] **Big Data Engineer Consultant**

Sky Deutschland GmbH on behalf of NTT Data Italia and VT Solutions & Consulting

Main activities and responsibilities:
SKY DE on behalf of NTT Data Italia in NEW-CRM project. Main Topics:
- Data modelling 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.
- Development of Google Airflow DAGs using Python to perform ETL operations on data for DWH.

[Sep 2020 – Feb 2021] **Big Data Analyst Consultant**

Telecom Italia S.p.A. on behalf of Bip and VT Solutions & Consulting

Main activities and responsibilities:
Big Data Analyst on TIM Genomics 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.

[Dec 2019 – Oct 2020] **Big Data Engineer Consultant**

Enel S.p.A. on behalf of ATOS S.p.A. and VT Solutions & Consulting

Main activities and responsibilities:
Big Data Engineer on Enel Next Project using Scala and Java programming languages,
Hadoop Cloudera Distribution. 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.

[Dec 2019 – Current] **Big Data Engineer**

VT Solutions & Consulting

City: Rende
Country: Italy
Main activities and responsibilities:
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

[8 Jul 2022 – 8 Jul 2024] **GCP Professional Data Engineer**

Google Cloud   https://cloud.google.com/

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

[2017 – 2021] **Master Degree in Computer Science**

Università della Calabria - Department of Mathematics and Computer Science   https://www.unical.it/portale/

Address: 87036, Rende, Italy

Field(s) of study: Information and Communication Technologies

Level in EQF: EQF level 7

Main subject / occupational skills covered:
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

[2013 – 2017] **Bachelor Degree in Computer Science**

Università della Calabria - Department of Mathematics and Computer Science   https://www.unical.it/portale/

Address: 87036, Rende, Italy
Field(s) of study: Information and Communication Technologies
Level in EQF: EQF level 6
Thesis: RDF Ontology Query for a Question Answering System
Main subject / occupational skills covered:
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

[Oct 2012] **PET B1**

University of Cambridge

https://www.icloud.com/iclouddrive/0NFIiSrsMi3tyW8ZlZu8LOw-A#pet

[12 Apr 2022] **Astronomer Certification DAG Authoring for Apache Airflow**

Astronomer   https://www.credly.com/badges/1f1da504-b57b-48d7-8072-fef4f4986b63/public_url

[Feb 2022] **Astronomer Certification for Apache Airflow Fundamentals**

Astronomer   https://www.credly.com/badges/f424a105-4f82-4de6-91bf-70a299052e09/public_url

[Jul 2021] **Google IT Automation with Python**

Coursera | Google   https://www.coursera.org/account/accomplishments/specialization/certificate/MJEDKUL6CEKU

https://coursera.org/share/ba7869018a8949a61f5cb3aceff1e3fe

[Feb 2022] **CodinGame Certification - Scala**

CodinGame   https://www.codingame.com/home

[Dec 2020] **Data Engineering with Google Cloud Specialization**

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

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

[2013] **Secondary school diploma: Business High School**

Italian Secondary School: ITAS ITC   http://www.itasitcrossano.edu.it/

Field(s) of study: Business, administration and law , Information and Communication Technologies
https://www.icloud.com/iclouddrive/0TEk9BS9uPXnbfdgowss2SOcQ#DIPLOMA

[Nov 2019 – Jan 2020] **TRAINING: Study and use of a Big Data ecosystem**

VT SOLUTIONS & CONSULTING   http://www.vtsolutions.it/

Address: 87036 , Rende, Italy
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

[4 Nov 2019] **Best Student Machine Learning** **Awarding institution:** Università della Calabria - Department of Mathematics and Computer Science

Best Student in Machine Learning Certificate

https://www.icloud.com/iclouddrive/04QwjtTu42vB1e1-0HA5CC-mg#bs_machine_learning

[4 Oct 2012] **Attendance course at ETC International College, Bournemouth, Inghilterra**
Awarding institution: ETC International College, Bournemouth

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

https://www.icloud.com/iclouddrive/0z_FGaHDIwb5aYkfD03TKBF1Q#ETC_Certificate

DRIVING LICENCE

Motorbikes: A1
Cars: B