

Silvio Pavanetto

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PROFESSIONAL SUMMARY

Software Engineer with over 4 years of experience specializing in building scalable distributed systems, data pipelines, and APIs using Python and GCP technologies. Loving Technology, Basketball and Music.

WORK EXPERIENCE

- Jobtome** Mendrisio, Switzerland
Software Engineer Nov 2021 - Present
 - Designed and implemented** high-performance APIs using **Python** and **FastAPI**, handling **thousands of requests per second**, improving response times up to **300%**.
 - Developed core algorithms** for pricing and delivery optimization, enhancing margin and boosting revenues by **15%**.
 - Built and managed** data pipelines using **Apache Beam**, processing **millions of records per day** from **Google Pub/Sub** to **BigQuery**.
 - Architected** a scalable job offers crawler on **GCP** with over **5,000 crawlers**, collecting **300k jobs per day**. Technologies used: **Airflow**, **Kubernetes**, **Google Cloud Tasks**, **Cloud Run**, **Dataflow**, **BigQuery**, **Pub/Sub**.
 - Developed** a classification model using **NLP** and **deep learning** techniques (**BERT**, **CNN**), deployed on **Google Vertex AI**, achieving **95% accuracy** processing **1 million jobs per day**.
- Polytechnic University of Milan** Milan, Italy
Research Fellow Oct 2019 - Oct 2021
 - Analyzed** over **3 million** Italian social media conversations about vaccines to understand public discourse and vaccine hesitancy rates.
 - Developed** a data pipeline for ingesting and analyzing **hundreds of online reviews and social media posts per day** from **100 Italian museums**.
- Deloitte Digital** Milan, Italy
Software Developer Feb 2019 - Aug 2019
 - Contributed** to international cloud projects using **Salesforce**, **Java**, and **JavaScript**.

SKILLS

Programming Languages: Python — Java — JavaScript — C++

Frameworks and Technologies: FastAPI — Pub/Sub — Airflow — Apache Beam — TensorFlow — Scikit-Learn

Cloud and Tools: Google Cloud Platform (GCP) — Docker — Kubernetes — Git

Databases: SQL — PostgreSQL — BigQuery — Elasticsearch

Others: Data Structure — Algorithms — Distributed Systems — Microservices — Cloud Computing — TDD — CI/CD — NLP — Machine Learning

EDUCATION

- Polytechnic University of Milan** Milan, Italy
M.Sc. in Computer Science and Engineering Sep 2016 - Apr 2019
GPA: 110 with honors/110
- Polytechnic University of Milan** Milan, Italy
B.Sc. in Engineering of Computing Systems Sep 2013 - Sep 2016

SELECTED PUBLICATIONS

- Silvio Pavanetto, Marco Brambilla:** *Generation of Realistic Navigation Paths for Web Site Testing using Recurrent Neural Networks and Generative Adversarial Neural Networks*. ICWE 2020
- Marco Di Giovanni, Lorenzo Corti, Silvio Pavanetto, et al.:** *A Content-based Approach for the Analysis and Classification of Vaccine-related Stances on Twitter: the Italian Scenario*. ICWSM 2021