Tommaso **Peresson**

COMPUTER SCIENCE ENGINEER

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Summary

Msc. Computer Science Engineer graduate @ Politecnico di Milano. Currently working as **Data Platform Engineer** in Bumble. I'm pragmatic, passionate, and opinionated. I love to know how things work. If I'm not in front of a screen you can find me skiing sailing or playing tennis.

Education

Politecnico di Milano   *Milan*
MSc. & BSc. IN COMPUTER SCIENCE ENGINEERING   *2015 - 2021*

Google   *-*
PROFESSIONAL GCP DATA ENGINEER   *Jan 2022*

Experience

Bumble Inc.   *London*
DATA PLATFORM ENGINEER   *Apr 2022 - Present*

- Data Platform tools **software development**. (Python, Java, TypeScript, PHP)
- Maintaining **PB scale data infrastructure**. (Hadoop, Spark, Snowflake)
- Optimisation of Big Data pipelines. (Query profiling, Spark, Clickhouse, Pinot)
- **Apache Pinot OS contributor**. **Check github**
- Upgraded backend engine for in-house data discovery tool using Apache Pinot with full ownership of
  Research and system design, GKE K8s provisioning, deployment and admin, Pinot deployment, Spark data generation, Schema generation,
  Validation, Performance/Cost tuning, UI redesign. **Achieved a >10x speed improvement on page response times.**
- High availability production Airflow deployment on K8s, maintenance and admin
- Apache Pinot, Clickhouse, Snowflake, k8s, Python, Java, Spark, Hadoop, Kafka, Airflow

HousingAnywhere   *Netherlands*
DATA ENGINEER   *Mar 2021 - Mar 2022*

- Led the restructuring of the **Snowflake** Data Warehouse.
- Designed and implemented the DW **Permission model** with growth and scalability in mind.
- Designed and built services using redis and k8s to serve the analytics platform
- Designed and developed DW **Anonymisation Layer** using DBT. **TDS Article**
- ETL and ELT pipelines design and implementation using **Arflow**.
- GCP: Cloud Composer, GCS, BigQuery, Redis, CloudSQL, Kubernetes, Cloud Functions

HousingAnywhere   *Netherlands*
DATA ENGINEERING INTERN   *Sep 2020 - Feb 2021*

- Worked both as Data Engineer / Data Scientist.
- MSc thesis on a state of the art **recommender system** optimized for a double-sided marketplace like
  HousingAnywhere's.

Projects

Sagrada
SOFTWARE DESIGN AND IMPLEMENTATION   *February 2018 - June 2018*

- Desktop implementation in Java of a popular board game called Sagrada.
- Custom network interface to implement real-time multiplayer games.
- Development followed software development paradigms for Design Implementation and Testing.

Skills

Programming Languages	**Python**, Javascript, **SQL**, **JAVA**, Typescript, PHP, Bash
Tools and Frameworks	**Airflow, Snowflake, GCP, Docker, K8s, Hadoop, Spark, Apache Pinot, ClickHouse, Hive, NodeJS, Flask**
Languages	Italian (Mother tongue), **English** (C1 Level)