


# Oleg Brovko

Full stack data engineer with theoretical physics background

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 olegbrovko

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## Summary

Data/software engineer and analyst with a computational physics background. Have been in charge (hands-on and as tech-lead) of analytics/reporting ecosystems (data modelling, ETL, integration, analytics, reporting, migrations) and lower-level development (high-throughput event streaming, audience building, personalisation backbone, CRM/product automation).

Currently in the final stage of a sabbatical and on the lookout for a new challenge. Would cherish an opportunity to work in a cross-functional team on projects either at the junction of industry and academia on socially/globally impactful endeavours; or concentrate on leveraging data internally to empower the team to do their best in achieving the organisation's mission.

## Work Experience

- **Consultant - Sabbatical (UK, Germany, Guatemala)**

Jan 2022 – present

Engaged in smaller projects with several early-stage start-ups, an NGO, and a private hospital chain. My input ranged from full implementation of information management flows and data application prototypes to consulting on project/product ideation, architecture design, and hiring. Continue to engage as a mentor and serve as a sounding board.

- **Lead Data / Software Engineer – Revolut (London, UK)**

Jan 2020 – Jan 2022

My team worked hard to enable other teams at Revolut to communicate with our customers in a meaningful personalised manner by building an event-driven customer engagement platform and providing personalisation, audience-building and triggering services. In the last 6 months - interim product owner of the team.

- **Data Engineer / Tech Lead – Ubeeqo (Barcelona, Spain)**

Apr 2018 – Sept 2019

Designed, developed and co-maintained various aspects of the data ecosystem and analytical activity: ETL and data warehousing, event-driven user-tracking for CRM and product analytics, reporting, offline analytics (statistical and model-based), automation for business, CRM, operations and support, and systems integration.

- **Physicist / Researcher – MPI  $\mu$ Phys, ICTP (Germany, Italy)**

Feb 2007 – Apr 2018

Conducted computational research in nanoscale magnetism and material science on massively parallel machines, evaluating results, publishing and presenting at international conferences. Taught computational physics at the undergraduate level.

- **Software Engineering Intern – JINR (Dubna, Russia)**

Feb 2006 – May 2006

Developed interfacing software package for accelerator magnet calibration setup - full automation of the measurement benches and signal acquisition, processing, and storage.

## Skills

### • Domains

event-driven service meshes, data pipelines, cloud ETL, third-party tool integration, analytics, reporting, systems integration, data modelling

### • Core stack

Python, Go, Docker, Kubernetes, Kafka, Google PubSub, Google Cloud Ecosystem (Kubernetes, GCS, BigQuery, DataStudio), diverse DBMS

### • In the past

R, Matlab, Fortran, C/C++

### • Online certification

Big Data Applications and Analysis - HDFS, MapReduce, Spark, Spark SQL, Hive, ML at Scale

### • Platform integration

Segment, Braze, Mixpanel, Asknicely, Five9, Freshdesk, Zendesk, Fleetbird, Odoo, HL7

## Languages

English	native level
German	native level
Russian	native
Spanish	intermediate
Italian	basics

## Education

- Postgraduate, PhD (Physics)  
Max Planck Institute of Microstructure Physics (Halle, Germany)
- Graduate (Physics, non-linear optics)  
M. V. Lomonosov Moscow State University (Moscow, Russia)
- Undergraduate (Physics)  
M. V. Lomonosov Moscow State University (Moscow, Russia)

## Academic Highlights

- Over 8 years of postdoctoral research experience in top research institutions in Germany, Italy, USA.
- Publication track record with over 25 publications in high impact journals, lead author / lead theory author of four major review articles and books
- Head of group's outreach, presentation activities and consultant on publication preparation
- Teaching and tutoring experience at undergraduate and graduate levels (computational physics, presentation design)

## Personal Interests

- Mountaineering, rock climbing
- Sailing (races)
- Strategic, logical and community board games
- Bike and hike tours, tango argentino, salsa

## Availability & Modalities

- German national
- Indefinite leave to remain in the UK
- currently spending time between UK, Germany, and Portugal
- ready to relocate or work remotely
- strongly welcome opportunities to learn