

## CAREER PROFILE

I'm a Data Engineer / Python Developer with keen interest in Systems Design and Architecture.

## SKILLS & PROFICIENCY

Python	<div><div></div></div>
PostgreSQL	<div><div></div></div>
Spark	<div><div></div></div>
Airflow, Docker	<div><div></div></div>
Systems Design	<div><div></div></div>
AWS	<div><div></div></div>

## EXPERIENCES

**Integration Engineer** 2019 - Present  
Mercaux, Barcelona

Design and development of robust ETL system specializing in delivery data from B2B clients to Mercaux REST API. Implementation of EDA (exploratory data analysis) workflows within JupyterHub environment.

- Python, PostgreSQL
- JupyterHub
- Spark, Dask
- Airflow
- Docker
- AWS (EMR, EC2, S3, IAM)

**Lead Data Engineer** 2018 - 2019  
Mercaux.AI, Hong Kong

Lead the development of high-load machine learning system that correlates clickstream users data to their Big 5 psychology traits.

- Spark, MLlib
- Tensorflow, Keras
- tidyverse, pandas, numpy
- AWS (EMR, EC2, S3)

**Software Developer** 2012 - 2017  
Kraftool GmbH, Moscow

Design and development of a multi-agent simulation for an automatic warehouse.

- numpy, networkx, matplotlib
- PyQt
- Redis

**Software Developer** 2009 - 2011  
OAO "Brit", Moscow

Development of a game portal as a part of an in-house social network project. 3D games development.

- Erlang
- RabbitMQ
- WebGL, Blender

**Research Engineer** 2009  
ITAE, Moscow

Development of laboratory software for radiolocation studies.

- C++
- Matlab
- LabView

## COURSES & WORKSHOPS

**Computer System Engineering (6.033)** 2019  
Massachusetts Institute of Technology

**SAT/STM Solving (PS2 SS 2018 703048)** 2018  
University of Innsbruck (Department of Computer Science)

**CMU Deep Learning (CMU 11-785)** 2018  
Carnegie Mellon University

**PPAML-2016** 2016  
Galois inc.



## ILYA ZUBKOV

Data Engineer (Python)

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## EDUCATION

**MSc in Physics**  
Moscow State University  
2003 - 2009

## LANGUAGES

English (Fluent)

Spanish (Intermediate)

Catalan (Elementary)

## INTERESTS

Mountain biking

Swimming

Hiking

Running (beginner)

Math