

# Federico Spatola

Born in Palermo, moved to Trieste for higher education. Nowadays one of the things I like the most is to spend my time (both at work and for fun) developing Python applications and managing data



Palermo, Italy

(mailto:)

LinkedIn

(<https://it.linkedin.com/in/federicospatola>)

Github

(<https://github.com/federicosp>)

## Career

### Python Developer / Data Engineer (Immobiliare.it SPA)

19/04/2021–now  
Palermo-remote

Contributing to ETL services, REST APIs, SQL & NoSQL databases, containerization, application deployment.

### Full stack developer (Xpand Group LTD)

02/11/2020–02/02/2021  
Belfast-remote

Created web-scraping scripts in Python to extract data from various sources.

## Technical Skills

### Data Engineering

Data Engineering

Data Pipeline

Data Transformation

Data Source e Serving

Data Governance

Data Platform

D. Platform Governance

D. Platform Examples

Distributed Computing

Apache Spark Architecture

Apache Spark

Apache Spark Extensions

ELT

Brokers Messages

Workflows

Apache Airflow

Data Storage

Table Format

Database

SQL Constructs

SQL Clauses

SQL Functions

SQL

Wildcards&Operators

## Software

Software

Encoding

Encryption /  
Hash

Data Structures

Hardware  
Elements

Hardware  
Configuration

Observability

Operating  
System

OS in Cloud

Containers

Container  
Orchestration

Processes

Memory

Async Code

## Web & Networking

Networks

VPC

Network Security

HTTP and Web

TCP-IP Model:  
levels 5,6,7

TCP-IP Model:  
levels 3,4

TCP-IP Model:  
levels 1,2

Web Server

Web Proxies

Web DNS Server

Backend

Backend  
Elements

Web API

## Software Design

Design

Design Disaster  
Recovery

Design Testing

Easy Algorithms

Array Algorithms

Tree Algorithms

Complexity

## Agile And Git

Agile

Agile Alternatives

Agile Tools

Git

Git Tools

GitLab Hosting

GitLab CI

## Python

Python

Python Execution

Python Classes

Python UV

Python Build

## Education

### Master in Statistical and Actuarial sciences

University of Trieste, Trieste (09/2018 - 03/2021)

### Erasmus+ for study

University of Ljubljana, Ljubljana (02/2020 - 07/2020)

### Bachelor in Mathematics

University of Trieste, Trieste (09/2014 - 07/2018)

### Scientific maturity

Liceo scientifico Galilei, Palermo (09/2009 - 07/2014)

## Cities

### Where I have lived

- Palermo >20 years
- Trieste ~6 years
- London Derry ~1 month
- Copenhagen ~1 month
- Ljubljana ~2 months

## Book I've read... at least partly

### Data Engineering

- Fundamentals of Data Engineering - Joe Reis, Matt Housley - edition 2022
- Data Pipelines with Apache Airflow - Bas Harenslak, Julian de Ruiter - edition 2021
- Python and Snowflake with Snowpark - Snowflake Inc. - edition 2021
- Designing Data-Intensive Applications - Martin Kleppmann - edition 2017

- Streaming Systems - Tyler Akidau, Slava Chernyak, Reuven Lax - edition 2018
- MySQL Architecture - Lenz Grimmer, Jeremy D. Zawodny - edition 2005
- MongoDB The Definitive Guide - Shannon Bradshaw, Eoin Brazil, Kristina Chodorow - edition 2019

## Python Development

- Python Testing with Pytest - Brian Okken - edition 2017
- FastAPI: Modern Python Web Development - Bill Lubanovic - edition 2023
- Python Cookbook - David Beazley, Brian K. Jones - edition 2013
- Effective Python - Brett Slatkin - edition 2020
- Fluent Python - Luciano Ramalho - edition 2022

## Software

- Version Control with Git - Jon Loeliger, Matthew McCullough - edition 2012
- Clean Code Principles and Patterns: A Software Practitioner's Handbook - Robert C. Martin - edition 2008
- Linux Administrators Handbook - Evi Nemeth, Garth Snyder, Trent R. Hein - edition 2018
- Docker: Up & Running - Sean P. Kane, Karl Matthias - edition 2023
- Terraform: Up & Running - Yevgeniy Brikman - edition 2019
- Kubernetes Up & Running - Brendan Burns, Joe Beda, Kelsey Hightower - edition 2022

## Web

- The Road to GraphQL - Robin Wieruch - edition 2019
- Microservice Architecture - Irakli Nadareishvili, Ronnie Mitra, Matt McLarty, Mike Amundsen - edition 2016