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| giuniodl@live.it | Giunio De Luca | [linkedin.com/in/giunio-de-luca](https://www.linkedin.com/in/giunio-de-luca/) [github.com/giunio-prc](https://github.com/giunio-prc) |

I am deeply dedicated to innovation within software engineering. Throughout my career, I have had the opportunity to work across different industries such as research, sports, and energy, teaming up with governmental agencies, educational organizations, and startup businesses. Following Test-Driven Development methodologies, my emphasis is on creating code that is both effective and easy to maintain.

I possess specialized knowledge in developing APIs and designing web applications using Python, and I have authored the book "FastAPI Cookbook," serving as a reference resource for the community.

## Technologies and Languages

* Languages: Python, Javascript
* Technologies: Google Cloud Platform, Docker, Git, FastAPI, Django
* Other: Concurrency Programming, Cross OS Development, DevOps, Test Driven Development

## Work Experience

### FULL STACK DEVELOPER ENGIE SA JUL 2024-present

Research and development division Brussels, Belgium

* Developing and maintaining applications used and commercialized across the group.
* Coaching scientists clean code practices to allowing them building reliable PoCs

### PYTHON COACH TEKNO-FAMILY FEB 2025-APR 2025

Tekno-Family is a charity organization founded to promote coding as a tool for integration of teenagers from Brussels’s most difficult suburbs

Teaching students the basics of python libraries to help them landing junior developer and data science jobs

### TECHNICAL AUTHOR PACKT PUBLISHING mar 2024-present

Web development division Birmingham, UK – Mumbai, India

Writing the book FastAPI Cookbook, Develop high-performance APIs and web applications with Python.  
See the link: [FastAPI Cookbook | Web Development | Subscription (packtpub.com)](https://www.packtpub.com/en-us/product/fastapi-cookbook-9781805127857)

### Python Developer Coreso Apr 2023–Mar 2024

Internal Software Development Team Brussels, Belgium

* Delivered an entire web application for phase shift controller data communication in 3 months from business requirements to UAT (User Acceptance Testing) phase.
* Parameterized unit test features that spotted and corrected core 6 errors in one modification the week before production release. This prevented algorithm inconsistencies from being deployed in production, avoiding weeks of extra time spent in debugging.

### Software Engineer Gorilla Data Oct 2022–Mar 2023

Product Team Antwerpen, Belgium

Defined and developed back-end API features to enhance the platform’s functionality. This resulted in a 10% increase in the speed of data-processing, measured through data-throughput rates before and after the deployment of new features.

Implemented test-driven development and managed database migrations. This reduced the downtime by 15% reflected on monitoring metrics such as execution time, error rates and database uptime.

### Software Engineer Royal Belgium Football Association Aug 2020–Sept 2022

Internal Software Development Team Tubize, Belgium

* Developed and maintained the backend service of the official [Play Store App](https://play.google.com/store/apps/details?id=be.rbfa). It resulted in improved user engagement and satisfaction (1 million downloads in 1 month).
* Provided support to the men's national players' team selection, by improving existing pipeline, reducing maintenance operations by 90% measured through Jira tickets.
* Mentored 5 internships during their last year of master studies from several Belgian universities.
* Contributed to winning the 2021 UEFA GROW AWARDS for the digital strategy, demonstrating the impact and value of the work ([See in this official article](https://www.rbfa.be/en/news/rbfa-wins-prizes-2021-uefa-grow-awards)).

### RESEARCHER LABORATOIRE EM2C NOV 2015 – JUl 2020

Combustion Division Gif-sur-Yvette, France

Published a manuscript, demonstrating the significance and impact of the research work ([See the manuscript](https://theses.hal.science/tel-03347525)).

## Education

PhD Energetics and Simulation, École CentraleSupeléc, France. June 2021

Postgraduate Research Master in Numerical Fluid Dynamics**,** von Karman Institute, Belgium. June 2015

Master Degree in Industrial Engineering, University of Basilicata, Italy April 2014

## Certifications

Kubernetes and Cloud Native Associate May 2023

Google Cloud Certified Professional Security Engineer March 2023

Google Cloud Certified Professional Network Engineer February 2023

Google Cloud Certified Associate Engineer April 2021