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Giunio De Luca

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

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)](packtpub.com)

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. 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).

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).

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