



# Francesco Davide Lapenta

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## Professional Summary

Software Engineer with strong experience in backend development, cloud-native infrastructure, and open-source contributions. Skilled in Java, Spring Boot, Kubernetes, and CI/CD practices. Contracting with Ericsson through Zinkworks on 5G and telco cloud automation projects. Recognized contributor to ONAP, Nephio, and ORAN-SC open-source initiatives.

## Technical Skills

- *Languages & Frameworks*: Java, Python, Go, SpringBoot, Flask, FastAPI
- *DevOps & Tools*: Kubernetes, Docker, Git, GitHub Actions, Travis CI, Ansible, JMeter, Vagrant, VirtualBox, WSL
- *Cloud/Infra*: Kind, Minikube, Kubectl, K8s API, Free5GC, OpenAPI, ConfigSync, KPT Porch
- *Databases*: PostgreSQL, MySQL, OracleDB, MongoDB, CassandraDB, Redis
- *Other*: Bash, JSON, XML, HTML/CSS, GitHub, Gerrit, SonarQube
- *Languages*: Native Italian, Fluent English, Basic French & Spanish

## Professional Experience

### Software Developer at Zinkworks, Ireland

2019-Present

- Automated integration testing to support continuous delivery pipelines.
- Led Ericsson's internal POC and contributions to Nephio, integrating Free5GC workload and managing custom CRDs with a 3-way merge strategy.
- Refactored ORAN Non-RT RIC's rApp Manager and developed sample rApps with ML prediction capabilities.
- Delivered backend components for 5G network management tools in an Agile CI/CD environment.
- Spearheaded the shift to a "Documentation-First" API design using OpenAPI.
- Migrated legacy Java EE APIs to Spring Boot, improving modularity and scalability.
- Contributed to ONAP's policy-framework team, enhancing code quality with SonarQube and building robust unit, integration, and performance tests.
  - Technologies: Java 8 17 21, SpringBoot 3xx, Golang, Kind, Docker, K8s, PostgreSQL, CassandraDB, Github Actions, Kafka, Mockito, Python, FastAPI, Robot, SonarCloud, Bash, Maven, Git

**Private Maths and Physics Tutor (Part-time)** **2015-2021**

- Supported 3 high school students, successfully raising their grades

**Crowd Tester at AppQuality(Trybear)** **2014-2021**

- Identified and documented bugs for mobile and web apps; consistently ranked in top 20 testers.

**Other Roles:**

- Computer repair and diagnostics (hardware/software)
- Technical consultant for electronics resale
- Developer of university projects involving ML and computer vision

## **Education**

**Bachelor of Science in Computer Science**

**(L31)**

University of Bari, Italy – 2016-2019

Grade: 108/110

Thesis: Client-Server System for

Photo-Identification of Grampus Griseus

Supervisor: Prof. Giovanni Dimauro |

Co-supervisor: Dr. Rosalia Maglietta (CNR  
Bari)

**Scientific High School Diploma**

D. Cirillo High School, Bari – 2009-2014

Final Grade: 100/100

## **Personal Attributes**

- Transparent and goal-oriented team player
- Strong problem-solving and debugging skills
- Passionate about automation and efficient systems design
- Owner and maintainer of my own media server
- Updating regularly personal repositories, for experiments and practical learning.
- Willing to relocate and with own car.

Last Update: Sep 29, 2025