Francesco Davide Lapenta

Email: lapenta.d@gmail.com
Phone: +353 89 407 3461
Location: Athlone, Co. Westmeath, Ireland
Website: lapentad.github.io
GitHub: github.com/lapentad
LinkedIn: linkedin.com/in/lapentafd

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, Spring Boot, Flask
- *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*: PostgresSQL, MySQL, OracleDB, MongoDB, CassandraDB
- *Other*: Bash, JSON, XML, HTML/CSS, GitHub, Gerrit, SonarQube
- *Languages*: Native Italian, Fluent English, Basic French & Spanish

Professional Experience

Software Developer   Zinkworks, Ireland
2019–Present

- Migrated legacy Java EE APIs to Spring Boot, improving modularity and scalability.
- Spearheaded the shift to a "Documentation-First" API design using OpenAPI.
- Automated integration testing to support continuous delivery pipelines.
- Led Ericsson's internal POC and contributions to Nephio, integrating Free5GC 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.
- Technologies: Java 8 17 21, SpringBoot 3xx, Golang, Kind, Docker, K8s, PostgresSQL, CassandraDB, Github Actions, Maven, Git, Kafka

- Delivered backend components for 5G network management tools in an Agile CI/CD environment.
- Contributed to ONAP's policy-framework team, enhancing code quality with SonarQube and building robust unit, integration, and performance tests.
- Technologies: Java 8, SpringBoot 3xx, Docker, Mockito, Python, FastAPI, Robot, SonarCloud, Maven, Git

Private Maths and Physics Tutor (Part-time)
2015–2021
- Supported 3 high school students, successfully raising their grades

Crowd Tester   [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: 100/10

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 16, 2025