Lorenzo D'Ortona

M.Sc. CS student · Distributed Systems & Systems Programming · Go, C, Python

Milano, Italia contact@lorenzodortona.com LorenzoDOrtona LinkedIn LeetCode

Education

M.Sc. in Computer Science and Engineering *2025 – Present*
Politecnico di Milano, Milano

Relevant courses: Computing Infrastructures (30L/30) · Embedded Systems (30L/30) · Security and Resilience of Critical Infrastructures (30L/30) · Advanced Operating Systems (28/30) · Advanced Computer Architectures (28/30) · Software Engineering 2 (28/30)

Exchange Student *2026 – 2027*
Chalmers University of Technology, Göteborg, Sweden

Relevant courses: Computational Techniques for Large-Scale Data · Statistical Learning for Big Data · Design of AI Systems

B.Sc. in Computer Science and Engineering (Final grade: 99/110) *2022 – 2025*
Politecnico di Milano, Milano

Relevant courses: Software Engineering project (30/30) · Software Engineering (29/30) · Algorithms and Data Structures (30/30) · Data Bases (30/30)

Honors: Angelini Industries Merit Award, 2022 and 2023 (best-performing student, two consecutive years)

Open Source

DuckDB PR
Added the duckdb_secret_type_parameters() system table function, exposing secret-type parameter schemas via SQL (merged).

Dandelion (ETH Zürich EASL) PR
Made the ELF loader honor p_align instead of a hardcoded 4 KB, fixing mprotect on aarch64 kernels with larger pages (merged).

Dandelion (ETH Zürich EASL) PR
Diagnosed a constant ~40 ms stall on multi-item responses (Nagle + delayed ACK) and fixed it with TCP_NODELAY (merged).

Experience

Performance Engineer Analyst *Feb 2025 – Sep 2025*
MOVIRI S.p.A., Milano

- Developed and updated **50+ Python integrations** between **Splunk** and **Dynatrace**, reducing API calls by **30%**.
- Automated key steps of recurring report-generation workflows, **eliminating the manual work** for those reports.

Voting and active member *Apr 2025 – Present*
Politecnico Open Unix Labs (POuL), Milano

- Held the **Git 101** course (2026 edition) as a speaker for **300+ students**, covering essential concepts.
- Assisting the sysadmin team by learning **Kubernetes** to support the lab's infrastructure management.

Projects

Tris Inception — Distributed Game Engine — *Go · React · Docker · Kubernetes (k3s) · CI/CD* Demo Repo
Distributed game engine in Go with a stateless backend, deployed on self-hosted Kubernetes (k3s) through a GitOps pipeline (GitHub Actions), with Traefik ingress and automated TLS.

LSM6DSOX — Linux Kernel IIO Driver — *C · Linux Kernel · IIO · Regmap · I2C* Repo
Educational Linux kernel driver for the ST LSM6DSOX 6-axis IMU (accelerometer & gyroscope). Integrated with the Industrial I/O (IIO) subsystem supporting sysfs direct reads, high-speed streaming via triggered kfifo buffers, regmap over I2C, and devm resource management.

Skills

Programming: Python (advanced), C (intermediate), C++, Go, Java, SQL
Automation & DevOps: Docker, Kubernetes (k3s), CI/CD (GitHub Actions), Selenium
Research Interests: Distributed systems, Databases & data systems, Systems programming, Large-scale data processing
Languages: Italian (Native), English (Advanced – TOEIC 920/990)