Edoardo Morassutto

Software Engineer

- Italian
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- edomora97

Education

Master's degree in Engineering of Computer Systems
at Politecnico di Milano | 2021 |
110/110 cum Laude
Study path Software Engineering for
Complex Systems

Engineering of Computer Systems
(equiv. Bachelor of Science)
at Politecnico di Milano | 2019 |
110/110 cum Laude

Skills

Programming Languages: fluent in
Rust, C++ and Python, incl. their
tools and standard libraries; good
level of Typescript, SQL and Latex;
medium level in C, Java and Tikz.

WebDev: HTML, CSS, JS (incl. React
and Next.js).

Linux: I use Arch Linux on my PC, and
configure and use Ubuntu server.

DevOps: Docker, Docker Compose,
and basic knowledge of Kubernetes.

Competitive Programming:
contestant and problem setter of
IOI-like tasks. Occasional
cybersecurity/CTF player.

Languages

Italian (mother tongue).

English (proficient level).

Extra-Curricular

Driving licence: B (Europe).

Work Experience and Internships

2021–2023   **Chief Technical Officer**   SWERC 2021–2022 / 2022–2023
South-Western Europe Regional Contest is a programming competition focused on algorithmic problem-solving between the best teams of many European universities. As CTO of the competition I had to prepare the contest environment (for around 120 teams), and make sure the competition ran smoothly.

2020–2022   **Main Developer**   alius.ai
I was the main developer at Alius.AI, working as full-stack engineer, developing the backend (Django), the frontend (Next.js) and the infrastructure (Kubernetes) of this social network.

Since Oct'16   **Technical and Scientific Committee**   Italian Olympiad in Informatics
Currently working for the Italian Olympiad in Informatics (OII, and also the *in teams* one, OIS) as member of the scientific and technical committee; I help to organize contests from the school-level one till the post-national one, training students for IOI (International Olympiad in Informatics). Also, I manage most of the infrastructure of the OII.

Since 2018   **Freelance Full Stack Developer**
Full Stack Engineer using mainly Python and React/Next.js.

Summer'16   **Internship (software development)**   IBM, Hursley (United Kingdom)
Four other students like me and I developed an internal platform for managing events using microservices and IBM technologies.

Research and Projects

Since 2022   **Author of olimpiadi-scientifiche.it**
I'm one of the main authors of the Italian Olympiad in Science's registration portal. It's a web application that allows students and schools to register for many Olympiads (Informatics, Mathematics, . . .). It's written in Django and Next.JS, with a GraphQL API, and it is successfully handling more than 25,000 students and 2,000 teachers.

Since 2018   **Author of stats.olinfo.it**   algorithm-ninja/oii-stats
Website with the statistics of all the editions of the national competitions at the Italian Olympiad in Informatics.

Since Feb'18   **Co-Author of terry**   algorithm-ninja/terry
A platform for Facebook Hacker Cup-like contests written in Python and React used for the regional selection at the Italian Olympiad in Informatics.

Since Nov'17   **Author of task-maker-rust**   edomora97/task-maker-rust
A tool for building, developing and testing Competitive Programming tasks. It's written in Rust, supporting distributed computations and interactive terminal-based UIs. It's used by few countries for preparing international contests.

Oct'21   **Noir: design, implementation and evaluation of a streaming and batch processing framework**
My master's degree thesis in which my co-author and I worked on designing and implementing a framework for defining and efficiently running workloads based on a network of operators.

Achievements

2018-2020   **Reply Code and Cybersecurity challenges**
I took part to the coding (ranking 7th in 2019) and cybersecurity challenges (ranking 5th in 2018, 6th in 2019 and 18th in 2020).

2013-2020   **Contestant of many Informatics competitions**
I participated in many programming contests: my team and I (Moradonellani, Politecnico di Milano) ranked 9th (bronze medal) at SWERC 2018, 9th (bronze medal) at SWERC 2019 and 13th (bronze medal) at SWERC 2020. I've also participated in Google CodeJam, Facebook Hacker Cup, Bloomberg CodeCon (to the finals in 2017-18), COCI, Google HashCode and other minor contests.