

Roberto Castellotti

Lifelong Computer Science student born in Genoa, Italy on 25/08/2000

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Professional Experience

Mar 2024 - Current

[Guardsquare, Leuven, BE](#)

Software Engineer

Backend developer contributing to a platform for testing, monitoring and protecting mobile applications. Key responsibilities include:

- Developing and maintaining **backend systems** (Golang)
- Designing an in-house framework for **end-to-end testing** (Python, Playwright, Appium) and mobile applications as test inputs to our pipeline
- Creating **internal tools** to enhance developer productivity (automating applications disassembling, IT workflows, hosting a code search instance)
- Managing **CI/CD pipelines** and monitoring production infrastructure on **Google Cloud Platform**
- Responding to **incidents** and writing post-mortems
- Performing mobile application disassembling and reverse engineering
- Providing **support** to customers

Apr 2023 - Sep 2023

[TUM, Munich, DE](#)

Student Tutor

Student Tutor for the [Introduction to Software Engineering course](#). Key responsibilities include: **assignments creation, mentoring and exam preparation.**

Education

Sep 2022 - Oct 2023

[TUM, Munich, DE](#)

Advanced Studies in Computer Science

Completed advanced coursework and examinations in: **Advanced Systems Programming in C/Rust, Efficient Algorithms and Data Structures, Cloud-Based Data Processing, Compiler Construction I, Advanced Computer Networking, Distributed Systems, Virtualization Techniques, Network Security.** Additionally, I worked on:

- Tooling to deploy bare-metal GNU/Linux images configured by [cloud-init](#) on [POS](#), the internal experiment orchestrator of the [Chair of Network Architectures and Services](#) at TUM, enabling fully automated and reproducible network experiments.
- A *guided research paper* in which I measured the performance impact of *AMD SME, SEV, SEV-ES, and SEV-SNP* — the technologies behind *Confidential Virtual Machines*.
- A [research project](#) on [Starlink](#) Internet performance (**routing, bandwidth, latency**), in which I introduced a method to query visible satellites from the dish and developed a side-channel measurement technique to detect satellite handovers in real time.

Oct 2019 - Jul 2022

[University of Genoa, Genoa, IT](#)

BSc in Computer Science

- Final Dissertation: [Android Root Detection Evasion](#) (110/110 with honors)
- Advisor: [Giovanni Lagorio](#)

Skills

I have good organizational skills, I am **empathetic** and I **believe in teamwork**. I have a passion for simple, elegant and powerful solutions.

I enjoy tackling new problems with a **first principles** approach and working methodically towards solution. I often code with colleagues and friends to receive feedback and improve; sharing knowledge and lessons learned is very important for me.

I am comfortable with agentic programming methodologies and generative AI tools.

I am fluent in **English** (C2), I understand French and German, and I am an **Italian** native speaker.

- **Programming languages:** Python, Golang, Zig
- **Web:** NodeJS, SQL, REST, gRPC, HTML, CSS, JavaScript, Vue, React, Svelte, SvelteKit
- **Tools:** GitOps, Jenkins, [OCI Containers](#) (Docker), Postgres, Redis, Kubernetes, Terraform, Linux SysAdmin and CLI tools