Ricardo Pereira

Software Engineer (Security)

- May 1996
- Based in Zürich, Switzerland
- https://www.linkedin.com/in/rpereiraa/

Short Bio ——————

I describe myself as a person who sees software development as an opportunity to solve various problems that people face in their everyday lives. I also believe that personal growth comes from interacting with others, and this is a principle I always carry with me.

Interests ——————

- 🎓 Cybersecurity
- 🎓 Robotics
- 🎓 Software development

Skills ——————

C	Java	Python	JavaScript	C#
C++	SQL	Haskell	Prolog	TVL
Alloy	Vertx	Maven	.Net	ROS
Node.js	IntelliJ	VS Code	VS
Git	TLA+	Fortinet FW
McAfee Proxy

Portuguese (Mother tongue)

English (Fluent)

German (Beginner)

Work experience / Education

Jul. 2022 – Present

Software Developer — Vontobel, Zürich

My primary responsibility is automating security systems that are critical to the bank's operations. Working with systems that cannot tolerate faults demands precision and expertise. I ensure that these systems run seamlessly, minimizing the risk of any security breaches. In addition to automating these critical security systems, I also play a key role in their administration. This involves close coordination with various departments within the bank, ensuring that all security policies are up to date and effectively implemented.

- Fortinet firewalls, McAfee proxies, Illumio;
- Java, Maven, Vertx, Wiremock, SLF4J;
- Git, Jira, Splunk.

Apr. 2022 – Jun. 2022

RPA Developer — Farfetch, Braga

As an RPA specialist, my primary role was to automate various background processes within our internal websites. By eliminating the human factor, I aimed to enhance efficiency and streamline our operations.

- SCRUM methodology;
- UiPath, C#, GIT

Nov. 2021 – Jan. 2022

Software Developer — Rydoo, Mechelen

Debug reported problems. Migration of users to a new service. Work on the implementation of custom fields functionality and other fields directly related to users.

- SCRUM methodology, BDD, TDD, DDD;
- .NET, C#, xUnit, GIT

Apr. 2021 – Sep. 2021

Researcher — INESCTEC, Braga

Worked as a researcher to improve an existing framework. I also did some parallel work as a bug hunter in a deduplication system.

Sep. 2014 – Dec. 2021

BSc and MSc Student
Software Engineering — Universidade do Minho, Braga

Acquired knowledge about multiple fields of software engineering such as: Programming Paradigms, Computer Networks and Communication, Operating Systems, Distributed Systems and Computational Systems and Architecture. The course also included an important math component (discrete, calculus, logic, algebra) as well as systems engineering subjects. Other areas of specialization:

- Cryptography and Systems Security
- Formal Methods in Software Engineering
- SQL and NoSQL Databases
- Web Applications Development
- Robotics (ROS, HAROS and TVL)

Personal/Academic Projects

InstaBot

Automation

Automate Instagram post commenting to gain advantage in giveaways.

Python | Selenium

HAROS-TVL

Managing Variability in Robots

Defined and built an extension to ROS (and HAROS) to manage variability in robotics.

ROS | C++ | JavaScript | TVL | Feature models | SPLs