

Nicolas Vaccari

Italy, Verona | nicolasvaccari.com | contact@nicolasvaccari.com | linkedin.com/in/nicolas-vaccari |

EDUCATION

University of Verona

Bachelor's Degree in Computer Science and Technology

Verona, IT

2018 – 2023

I.I.S G. Silva - M. Ricci

High School Diploma in Computer Science

Legnago, Verona, IT

2013 – 2018

EXPERIENCE

Research and Innovation Leader

Ristocloud Group S.r.l.

October 2023 – Present

Peschiera del Garda, Verona, IT

- Lead the research and adoption of technologies and best practices across a very large (over 2 million rows of code) legacy monolithic PHP environment alongside Go and Python micro services, serving over 90+ collective catering clients (almost all of the Italy market);
- Technical lead for a team of 8 software engineers (backend, frontend, mobile), defining code review processes, code organization, and work organization workflows, directly reporting to the COO;
- Technical lead and manager for the Flutter mobile app team supporting 100,000+ daily active users;
- Migrated code and tools of our very large monolithic software from PHP 7.3 to PHP 8.3, extending its life cycle and reducing technical debt;
- Migrated our on-premise infrastructure based on VMware to Google Cloud, greatly reducing the number of incidents and disaster recovery needs;
- Established a bimonthly release cycle with a 2 week internal testing window, boosting software stability, reducing the number of client facing bugs, ensuring ISO 27001/9001 compliance and balancing software development time and client needs;
- Introduced many technological advancements across all our softwares resulting in cybersecurity improvements, performance improvements, less production incidents and a better developer experience overall.

Software Engineer

May 2020 - October 2023

- Technical lead and manager for the Flutter mobile app team, supporting over 20,000 daily active users;
- Backend developer for the business core platform based on a very large monolithic PHP application.

Software Engineer

Web2Life SNC

December 2018 – May 2020

Legnago, Verona, IT

- Flutter mobile applications developer for end-users within the collective catering sector.

PROJECTS

MyLunch | *Flutter, Firebase, Android, iOS, PHP, SQL*

At Ristocloud Group S.r.l.

- Designed and rolled out MyLunch, the company most successful mobile app currently driving up all business sales related to canteen collective restaurants and universities collective restaurants in Italy;
- Made in Flutter, communicating directly with our core platform through REST APIs and offering 20+ services.

Fiscal Cashier | *Flutter, Firebase, Android, PHP, SQL, Redis, SUNMI hardware*

At Ristocloud Group S.r.l.

- Designed and rolled out a complete fiscal cashier solution, currently running inside canteen collective restaurants handling over 10,000 transactions daily and smoothly;
- Learned how the Italian fiscal cashiers work by communicating with "Agenzia delle entrate", how to handle multiple concurrent requests on the same resource, distributed synchronization especially when handling refunds (from app to core platform and vice versa) and remote device security trust.

EcoLunch CO2 calculator | *Laravel, PHP, SQL, Redis, Kubernetes, Github Actions*

At Ristocloud Group S.r.l.

- Designed and rolled out the first ISO 14067 certified CO2 emissions calculator for dishes prepared and consumed inside collective restaurants, schools and hospitals;
- Learned how to provision and manage a complete Laravel multi-tenant application with jobs and queues on Kubernetes with sub-1-minute deploy and automatic container image generation.

- Owner and teach lead;
- Learned how to handle many network socket connections behind proxies (Netty), event buses for distributed communication and synchronization, handling object states between multiple threads with proper locking;
- Learned how to effectively create and deploy Java/Spring Boot microservices that expose RBAC gRPCs calls and REST APIs via Envoy as a proxy, with protobuf generation happening automatically via Github Actions.

SKILLS & CURIOSITIES

Programming languages: PHP, Java, Python, Dart, SQL (MySQL), JavaScript, Typescript, HTML/CSS

Frameworks: Laravel, Flutter, Spring Boot, Javalin, Flask, Express, Hibernate/JPA

Developer Tools: Git, Docker, Github Actions, Google Cloud Platform, VS Code, IntelliJ Suite, Kubernetes, Redis, Gradle

Soft Skills: Team leadership, Project Management, Problem solving, Communication, Adaptability, Agile methodologies

Known languages: Italian (native), English (B2 level, certified)

About me: Passionate about racing (F1/GT3), enjoys playing Padel, loves reading engineering blogs and papers to stay up to date, has a homelab for trying new things