
About Me

I'm a backend software engineer with over a decade of experience in both product companies and consulting.

Currently Senior Staff Engineer and Tech Lead at **ProntoPro** & **Armut**, a fast-growing product company with a large user base and global reach.



Skilled in a range of technologies including Go, Php, MySQL, Redis, RabbitMQ, Kafka, Docker, Kubernetes, Helm, Grafana, Sentry, git, Drone, and Asana. Experienced in distributed and large-scale systems design and proficient in various architectures, patterns, and best practices.

I have a solid theoretical foundation from my master's degree in computer science.

[GitHub](#) | [LinkedIn](#)

Experience

Senior Staff Engineer and Tech Lead at **ProntoPro** and **Armut**

Jun 2019 - Now

- Led the development of new features and managed two teams of software engineers responsible for product development.
- Designed and implemented microservices and event-driven architectures, resulting in a scalable, maintainable, and reliable platform.
- Worked with stakeholders to define requirements and implemented solutions that met business needs.
- Developed and implemented automated testing strategies and CI/CD automation, resulting in improved code quality and faster release cycles.
- Contributed to defining the vision and strategy of the engineering department.
- Mentored colleagues and conducted technical-themed talks.
- Ensured the best development experience by gathering feedback from colleagues with biweekly 1:1s.

Accomplishments:

- Conceptualized, designed and implemented a new matching algorithm focused on user reactivation, which increased the number of quotes by ~2% and reactivated hundreds of users per month.
- Contributed to building a new Matching Algorithm to join customers and professionals based on past behaviors using machine learning, bringing a significant impact on the company's revenues.
- Built the first feature in the company that reliably implements an Event-driven architecture based on Kafka and the outbox pattern.
- Improved the developer experience by decentralizing a docker-compose-based dev environment.
- Built the first microservice to use CQRS, domain modeling (DDD), and event-driven architecture based on RabbitMQ.
- Developed a SERP microservice using Go and Elasticsearch, enabling search and filtering of 1M professionals from 1k different job types.
- Implemented an authentication system based on OAuth 2.0 and OpenID standards, utilizing a custom Go microservice for Identity Provider and ory/hydra for OAuth 2.0, OpenID flow orchestration.

Backend Software Engineer at Accenture

Sep 2018 - Apr 2019

I worked as a consultant for the Italian traffic police. I managed the technological modernization of a complex legacy system for the management of manual and automatic fines. Java with Swing framework and Oracle database were the technology used.

Software and Data Engineer at UmbriaDigitale

Nov 2014 - Oct 2018

As a Data Engineer, I managed the transformation of relational and textual data in Linked Open Data. This includes the design of ETL processes, the choice of appropriate RDF ontologies, and the build of a SPARQL database.

As a Software Engineer, I developed web applications in Java and Php for the management of public calls and funds of the Umbria region.

Freelance Software Engineer

Sep 2013 - Oct 2018

Engineering of web and mobile applications. Technologies: Magento 2, Joomla, PHP 7, Java 7, Android, MySQL, HTML, JavaScript, CSS.

Master's degree in Computer Science at **University of Perugia**

2014 - 2018

Grade: 110/110 cum laude

Thesis: "Linked Data knowledge base enrichment with Machine Learning"

Skills

- Programming languages: Go, Php, Java, Python
- Databases: MySQL, Elasticsearch, Cassandra, Redis
- Message Brokers: RabbitMQ, Kafka
- Containerization: Docker, Kubernetes, Helm
- Monitoring and Logging: Grafana, Sentry
- Version Control: git
- Project Management: Asana
- Testing: unit, integration, functional, TDD
- Architectures: event-driven, microservices, layered, hexagonal, event-sourcing, domain modeling
- Data Modeling: CQRS, denormalization, caching
- Communication: message brokers, REST, GraphQL, Pub/Sub
- Requirements Specification: example mapping, acceptance criteria, BDD

Contact

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By Lorenzo Franco Ranucci