About Me

Building software solutions for me is not only a job but above all a **passion** and **great fun**.

Solving problems has always been very challenging for me. I am the kind of person who spoils moments among friends by proposing and asking riddles!

Although this work is already very stimulating in itself, I believe it is essential that what I build has a practical, useful, noble, and ethical **purpose**; this is what drives my job search and pushes me to invest all my energy in my daily work.

GitHub | LinkedIn

Experience

ProntoPro

Jun 2019 - Now

At **ProntoPro** I am having the most rewarding training experience of my now decade-long career. I think telling about my experience in ProntoPro expresses in the best possible way what I am as a professional.

Here I'm proud to work on a product that has the **purpose of helping hundreds of thousands of people** allowing, on the one hand, professionals to find jobs and, on the other hand, customers to solve a wide variety of problems, from repairing a pipe to organizing a wedding!

I've learned from very experienced and talented colleagues how to build a product by focusing on Backend software design, but also by observing, learning, and contributing from end to end on different topics in various business departments and functions.

Context

ProntoPro is a professional services marketplace and a company of about 100 people, including about 40 engineers.

ProntoPro in numbers:

- thousands of job requests per day from customers.
- Tens of thousands of quotes per day from professionals.
- Thousands of logins per day.
- Millions of registered users.
- Thousands of active users.
- Terabytes of data.

Teams are dynamically assigned on a 6-week periodic basis according to the ShapeUp workflow; 3 to 8 cross-functional teams are generally composed per cycle.

We use DevOps and cloud-native philosophy and approach: software is tested, integrated, built, and released continuously, frequently (several times a week) and automatically. We use **Drone** for CI/CD, build **Docker images**, specify infrastructure as a code with **Helm** charts that are deployed to **Kubernetes** in staging and production environments that are as similar as possible. Applications are monitored through **Prometheus**, **Grafana**, and **Sentry**.

The Backend software system consists of a discontinued Php monolith and a dozen **Go and Php microservices** under development and expansion. The strategy is to build microservices with dedicated databases according to the **12-Factor** principle and **event-driven architecture**.

The visualization part is completely isolated in Frontend services, whose data is provided by the Backend API.

Machine learning applications are developed by Data Science and Data Engineering with support from Backend.

Duties

As a software engineer, my daily work consists of several activities, which are frequently and continuously iterated:

- I work side by side with cross-functional figures on design ideation and requirements specification, using tools such as **Example Mapping** and **Gherkin**. At this stage, we also try to analyze at a high level whether the effort required by the project to meet the time expectations of the business management and eventually how to outline an MVP and how to deconstruct a large project into sequential iterations. Here the principles of the **Agile Manifesto** are my main guide.
- I collaborate with other engineers on how to define fast implementation iterations that provide working and testable software as output. Here we use **feature flags** and **Asana** as tools.
- I implement the software in collaboration with other colleagues. Here **pair/mob programming** practices, **code reviews**, and **TDD** are critical to ensure high quality and fast feedback loops that guarantee a satisfactory time to market.

As a member of the Backend Core team and as a Backend Engineer with the greatest seniority, I am responsible for:

- leading the technical recruiting steps for Backend roles.
- Driving the Backend technical evolution defining vision, strategies, and tactics.
- Mentoring for the technical growth of colleagues.
- Conducting technical-themed talks.
- Ensuring the best development experience by gathering feedback from my colleagues with biweekly 1:1s.

As a member of the Architecture team, I am responsible for:

- managing relationships with other engineering functions.
- Driving the Engineering evolution by defining vision, strategies, tactics, and roadmap.

Timeline

- **Principal Backend Software Engineer** | *May 2022 - Present*
  - Main achievements:
    - 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.
- **Senior Backend Software Engineer** | *Apr 2021 - May 2022*
  - Joined the Backend Core and Architecture teams.
  - Main achievements:
    - Built the first microservice to use CQRS, domain modeling (DDD), and event-driven architecture based on RabbitMQ.
- **Backend Software Engineer** | *Jun 2019 - Apr 2021*
  - Main achievements:
    - Search Engine Result Page (SERP): gives consumers the ability to search and filter between ~ 1M professionals from ~1k of different kinds of jobs in six countries. It's a Go microservice, receiving data from a monolithic Php application via RabbitMQ messages, storing them and making them searchable in Elasticsearch. It also calculates job prices using Elasticsearch aggregations.
    - Authentication System: this allows our clients to authenticate using the OAuth 2.0 + OpenID standards. It runs on a custom Go microservice for the Identity Provider part and on ory/hydra for the OAuth 2.0 and OpenID flow orchestration.
    - Online badge: stores and exposes the online status of the professionals. It's a Go microservice that receives professionals' heartbeats sent by FE clients, stores them in Redis (until they expire), and exposes an online status for professionals.

Backend Software Engineer at Accenture

Oct 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 DB 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.

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.

Contact

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