

# João Delgado

Software Engineer



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## About Me



Hello!

I'm a web developer with 8 years of experience, specializing in backend services.

The technologies I have the most experience with are **Java**, **Spring**, **Postgres**, **ElasticSearch**, and **Kafka**.

## Experience

### Principal Engineer

*Jumia*

January 2023 - Present

Vendor platforms & Marketing

Modernizing Jumia's vendor platform from a legacy **PHP** application into more scalable **Java** microservices, with the help of 3 development teams. It involves predominantly catalog and order management and the main tech stack is **Spring Boot**, **Postgres**, **ElasticSearch**, and **Kafka**.

The primary challenge is its overall scale:

- a large system with almost 15 years of historical data,
- tens of thousands of integrated vendors,
- hundreds of millions of products,
- across more than 10 ventures.

More recently, I've expanded my scope to Jumia's marketing services, handling marketing communications and monetization services. I'm using **Go** with **Gin** and **GORM**, and **Kubernetes** for all deployments.

### Staff Engineer

*Jumia*

August 2019 - December 2022

Miscellaneous projects

Integrated a team responsible for various major projects in Jumia, all using **Spring Boot**. I was the technical leader for services handling:

- Authentication and authorization for all internal tools,
- Transactional communications.

I was also involved from the ground up in projects responsible for:

- General document printing for transactional systems (e.g. shipping labels, invoices, etc),
- Integration with local tax authorities in Uganda and Egypt.

I highlight the Search Project, to which I made my main contribution. This is an availability and performance-critical service that handles all the search and navigation traffic across the Jumia websites.

Here I had the opportunity to work on top of **ElasticSearch** and **Kafka**, with a big focus on metrics, AB testing, and data-driven development.

## Team Leader

Jumia

December 2017 - August 2019

Fulfillment - Order and Warehouse management

Led a team of around seven people, responsible for warehouse and order management systems in a multitude of technology stacks.

I inherited a monolith service in **PHP** that was being rewritten into two separate sets of microservices: one using the **Play Framework**, and another using **Spring Boot**.

I also had the opportunity to interact with other databases like **MariaDB** and **MongoDB** and started using **Docker** for deployments and CI builds.

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## Web developer

Jumia

October 2015 - December 2017

Logistics - Package management

Worked as a full-stack developer for a logistics system that managed all package deliveries in Jumia. The goal of this project was to revamp the way Jumia handled package and delivery management, in **Java**.

I had my first real contact with **Spring**, learned about message brokers with **RabbitMQ**, and SQL databases in production with **PostgreSQL**.

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## Intern

Geolink

July 2014 - September 2015

Invoicing system

Worked as an intern for a Portuguese company developing software for taxi dispatching, while I was writing my master's thesis.

During this year, I worked on an invoicing system to be used for issuing invoices for taxi rides and integrating them with Portuguese tax authorities. This was my first interaction with web development (in **Python**) and started to get some experience with web frameworks and ORMs (using **Flask** and **SQLAlchemy**).

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## Education

### *Master's in Network and Information Systems Engineering*

Faculdade de Ciências da Universidade do Porto

2010-2015

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## When I'm not working

Outside work, I love to travel. I'm currently on a mission to visit 40 different countries before I turn 40. I'm also enthusiastic about photography, climbing, and orienteering. And I have recently been introduced to the fascinating world of wine.

While I'm still sitting at my desk, I like to explore some different programming languages for small toy projects. Recently, I fell in love with Rust and it's been hard to let it go.

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