

Jorge Barata

FULL STACK SOFTWARE ENGINEER

Madrid, Spain

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Summary

Software Engineer with 15 years of experience, specializing in **data-intensive applications** for the past 9 years. I am now looking to transition into a role as a **professional training teacher**. My goal is to leverage my technical expertise, industry experience, and passion for teaching to help others develop the skills needed for success in technology-driven environments.

Experienced in **backend** with *Python, Django, SQL, Ansible, Terraform, AWS*, **frontend** with *React* and *TypeScript*, **machine learning** with *Scipy* and *scikit-learn*, and **big data** with *Spark*.

Strong **software design** skills: OOP, TDD, DDD, SOA, clean architecture.

EXPERIENCE

SENIOR SOFTWARE ENGINEER

September 2018 – December 2022 • *Eventbrite*, *Madrid*

Eventbrite is the market leader for live event ticketing globally. The platform handles hundreds of thousands of requests during the on-sales.

Worked in a fast paced agile environment with distributed teams in different locations and time zones.

Led the following projects:

- Django training for the teams in Spain, empowering engineers with expertise and improving the onboarding, as most of our services were built in Django.
- Migration of a Django+PySOA service to a Kotlin+gRPC service. Zero downtime using traffic shadowing and incremental rollout. This resolved existing performance bottlenecks and streamlined the communication across the services in our SOA model.
- Migration of a Redis-backed Django service to ElasticCache, reducing operational overhead and enhancing reliability and scalability.
- Migration of parts of the monolith to SOA services in Django+PySOA, facilitating independent development and scalability.

Added new features to the event listing page and ticket order page, which improved the sales funnel.

Joined the SRE team for some time, where I worked on the following projects:

- Trained the teams to set up Datadog dashboards, monitoring alerts, SLAs and error budgets, which allowed them to measure performance and improve the reliability.
- Migration from in-house infrastructure management system to Terraform and CloudFormation, enabling efficient provisioning and consistent configurations across environments.

Conducted over a hundred interviews and delivered many talks in tech events, playing a pivotal role in talent acquisition and knowledge dissemination, enriching our team with diverse talents and fostering industry connections.

Founded and organized the Django Madrid User Group, and Eventbrite sponsored the meetups. This brought more candidates to the hiring pipeline.

Stack:

- Backend: Django, Django REST Framework, Celery, MySQL, Redis, Elastic Search, PySOA, Varnish, RabbitMQ.
- Frontend: React, TypeScript.
- Infrastructure: Docker, uWSGI, HashiCorp (Consul, Nomad, Terraform), AWS (Fargate, DynamoDB, ElasticCache, CloudFormation), NGINX, HAProxy, Ubuntu, GitHub, Datadog, Sentry.

🌐 eventbrite.com 🐙 github.com/eventbrite/pysoa

PROFESSOR

July 2020 ◦ *IE University , Madrid*

Developed and delivered a comprehensive course on the Django web framework, designed for undergraduate students in computer science and related disciplines.

Created and curated course materials, including lectures, hands-on coding exercises, and real-world project assignments, to provide students with practical experience in building web applications using Django.

Guided students through the fundamentals of Django, including models, views, templates, and the framework's ORM capabilities, ensuring a deep understanding of how to develop robust and scalable web applications.

SENIOR SOFTWARE ENGINEER

July 2015 – August 2018 ◦ *Udemy , Dublin*

Udemy for Business (UFB) team. We created a platform with 20k+ courses offering on-demand, immersive, and cohort-based learning for businesses.

Worked in a fast paced agile environment with distributed teams in different locations and time zones.

Led the following projects:

- Hierarchical taxonomy management system for the course collection. It allowed the customers to organize the courses and increased adoption.
- Refactoring of the UFB's search system, moving from a dedicated implementation to a shared solution for the whole organization, which improved the team speed for developing experiments, new features, and the adoption from external developments.
- Enriched the course search by adding related lectures, which resulted on more search clicks and course consumption.
- A RESTful public API, enabling customers integration to the platform.
- Instrumentalization to monitor the quality of the delivery, alarms that notified the team on fortuitous behaviours.

Developed a self-service system that allowed customers to create learning portals for small teams. This helped to accommodate a market that today represents an important share of the current business.

Migrated old code to new stacks:

- From a in-house PHP framework to Django. This improved the onboarding learning curve.
- From Angular 1 to React+MobX, which gave us more flexibility.

Developed data pipelines for UFB analytics in Amazon Redshift, Pinball, Python and ChartIO.

3rd party services integration: Intercom, Slack, Marketo, PingOne/PingFederate.

Stack:

- Backend: Django, Django Rest Framework, Celery, MySQL, Memcached, Redis, Elastic Search.
- Frontend: React, MobX, Webpack, Babel, Karma.
- Infrastructure: Docker, uWSGI, Fabric, Ansible, CentOS, GitHub, Jenkins, Datadog.

🌐 udemy.com 🌐 business.udemy.com

CO-FOUNDER & CTO

November 2016 – today ◦ *Cooperativa Social Los Mochuelos , Madrid*

Led the development and launch of the *Reutiliza* project, a place for exchange and reuse of items. Built in Django and PostgreSQL and deployed on Debian with uWSGI, Nginx and Ansible.

Technology advisor for all the projects of the cooperative, as well as system management and software development. Wordpress multi-site, infrastructure, networking, and office suite.

🌐 mochuelos.com 🌐 reutilizabocema.com

CO-FOUNDER & CTO

June 2014 – November 2014 ◦ *Indievelopment, Dublin*

Indievelopment, a LaunchBox 2015 startup (Trinity College's accelerator for student startups).

Designed a crowdfunding platform for indie video games, deployable on Microsoft Azure.

🌐 indievelopment.info 🌐 launchbox.ie/companies/indievelopment 🌐 www.f6s.com/indievelopment

Please refer to my LinkedIn profile for previous work experience.

EDUCATION

B.SC. COMPUTER ENGINEERING,
M.SC DISTRIBUTED SYSTEMS

August 2007 – August 2017 ◦ *Universidad Carlos III de Madrid*

Taxi Recommendation System for Big Data: Final dissertation. It consisted of two parts:

- Data pipeline built in SciPy, scikit-learn, and Spark and deployed in the laboratory cluster.
- Web application with geospatial features built in Django and PostGIS.

🔗 github.com/jorgebg/taxi-recommendation-system

M.SC TEACHER TRAINING

September 2023 – October 2024 ◦ *Universidad Europea, Madrid*

LANGUAGES

Spanish: native

English: fluent (4 years working in Ireland, C1)

ADDITIONAL INFORMATION

Former founder and organizer of **Madrid Django User Group**. 🔗 www.meetup.com/MadridDjango/

Former founder and organizer of **Dublin Django User Group**. 🔗 www.meetup.com/django-dublin/

Imparted a Django web framework course at the IE University.

Over a dozen of tech talks. 🔗 jorgebg.com/talks/

Contributed to OSS projects: **Django**, **Yii**, **Symfony**, along others. 🔗 github.com/jorgebg

Please refer to my LinkedIn profile for previous work experience. 🔗 linkedin.com/in/baratajorge