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Education

Bachelor's Degree in System Analysis
Universidad de Buenos Aires - Facultad de Ingeniería (2006-2016)

Professional experience

Hotel Engine

(2023 - current) **Senior Software Engineer**
Building new functionalities and maintaining the frontend and backend of the hotel post-sales platform.

Hopper

(2022 - 2023) **Senior Software Engineer**
Building microservices using Scala, Finagle stack, GCP, EKS, Terraform, and others.

My team (Latam Expansion - Payments) is in charge of adapting the Hopper payment stack and functionalities to the LATAM markets, adding different payment methods like cash, or adding the ability to pay in installments. Also analyzing and proposing corrections on the approval rate we have on Latam. Also as part of the Latam Expansion team, I participated in different initiatives on the Growth team, like configuring localized offers and working together with different core teams.
As part of an expansion team on Hopper, the main challenge was to work together and coordinate our work with different teams in the Hopper core apps, designing solutions and getting the approval of multiple stakeholders before any implementation.

Ring.com

(2021 - 2022) **Software Development Engineer**
Building microservices using Scala, Cats, and AWS (DynamoDb, SQS, SNS, S3, Cloudwatch, CDK, CloudFormation, EC2/ECS, and Lambda, among others)

Specifically, the responsibility of my team was to develop and maintain the application owner of every event of every Ring device (EVM), this is a REST API

with their storage and enrichment of events from different data sources.

Wildlife Studios

(2020-aug 2020-dec) **Sr. Data Engineer**
As part of my role in WLS, I was working with a team of backend engineers, developing the different big data requirements of the project. The business core of the project was the calculation of a fair price to bid for an ad on every Adnet where the company advertised its games. Based on the past revenue per user profile estimated by different facets of a gamer, and the potentially estimated revenue that a user could generate.
Also, I was part of a movement in the organization which was in charge of redesigning the data organization and a shift of responsibility over the data applications ownership. The idea was to provide high-level tools to every team to facilitate the development of the different data jobs and make them responsible for every data manipulation needed by their team, and the data team will be responsible for supporting them on tooling, inspired in some way on the data-mesh pattern.

Despegar.com

(2012 - 2020-aug) **Scala/Java developer**

In Despegar.com, the team it’s responsible for the application development together with the administration of servers, databases, etc, and deployment on different environments including production. We use an in-company cloud solution like AWS. For monitoring, we use New Relic and other open-source products, like Kamon, Prometheus, Jaeger, Nagios, etc.

Data Services

This team is in charge of building, providing, and maintaining the ecosystem so that all the members of the company can access and analyze the company's existing information using various tools for both exploration and transformation of the data.
Some of the services provided by the team are:
- Batch Processing Infrastructure
- Data lake
- Real-Time data pipeline
- Tracking user activity
- Data Visualization

Technologies

Scala, http4s, doobie, circe, cats, Spark, Flink, Presto, Kafka, Hive, Zeppelin, Jupyter, ElasticSearch, Flink

Robotech

It’s a project to try to compare the Despegar hotel prices with another's OTA. With this data, the hotel's executives can negotiate better prices with the hotel's owners, and we can calculate multiple statistics about where the company is positioned in the market. We use Python and Selenium for the crawling and http4s/scala for the backend and data analysis.

Technologies

Scala, http4s, doobie, circe, cats, MariaDB, python, Selenium

HAL

It's a wizard to speed up the process of registration of a new hotel on the platform. Most of the data is required from the hotel owner and internally we make manual and automated checks on the property before publishing it on the site.

Technologies

Scala, Play!, MariaDB/GaleraCluster, ELK

Watson

Keeps the audits of any changes made by the hotel's owners inside the extranet of Despegar, changes like prices, availability, etc. It's often used for resolving conflicts between Despegar and hoteliers in case of errors in prices or bookings with supposed errors.

Technologies

Scala, Play!, MariaDB/GaleraCluster, Snappy

Hotels API v3

Help and advise teams in the organization on the refactoring of their API, adapting and creating the new company standard more compliant to REST API principles.

Rainman

Using as a data source the organic searches of the site, this system will detect abrupt changes in some prices. Alerting this as a unique offer to the subscribed users.

Technologies

Scala, Scalatra, Cassandra, Redis

Memento

Using as a data source the organic searches of the site, we save the prices retrieved from the performed search and use this data to feed the landing pages. With the data of the search the system keeps only the better prices for distinct buckets of periods, this guarantees we can show the landings the best prices found by any user of the site.

Technologies

Scala, Scalatra, Cassandra, Redis

Google Hotel finder

An implementation of the push Google hotel finder API, to provide any price change on Despegar properties, because of some tech limitations on internal systems, we need to crawl all properties on Despegar periodically and notify GHF of any detected price/availability change.

Technologies

Scala, Spray, Akka, Redis

Feed

XML interface to provide Despegar hotel prices to TripAdvisor, implementing their custom API.

Technologies

Java, Spring

Hotai

OTA interface to provide a link between Amadeus and Despegar, to provide Amadeus terminals the feature of booking on Despegar systems without leaving their platform.

Technologies

Java, Spring, OTA, MongoDB, StringTemplate, Scala

HSM

It's a replacement of a .NET system, with the responsibility of building the data for the hotel's availability page for the site, combining information retrieved from different providers. One of the most concerning issues is the response time because without this information the results page it's incomplete.

Technologies

Java, Spring, Cassandra, Memcached

Globant

(2011 - 2012) **Java Developer**

Southwest Airlines

Development and maintenance of the site www.southwest.com for Southwest Airlines. It was a bigger project with many teams changing the same codebase, the project was responsible for the home page, search, booking, and post-sale, including cross-sell of other services.

Technologies

Java, Spring, Spring MVC, Jquery, Mule, Maven

Servicio Desarrollo Argentino S.A.

(2009 - 2011) **Java Developer**

PYGA (Posiciones y Garantías)

The system was a gradual replacement of an IBM COBOL system, which managed the status of accounts, and guarantees of the Buenos Aires Stock Agents, keeping on record any movement of the agents, and calculating how much risk the Stock Exchange could take for any Agent who operates in there.

Technologies

Java, Spring, Spring MVC, Velocity, Hibernate, Oracle10g, ant

STRI (Sistema de Trimestrales)

A replacement of an existing IBM COBOL system that generates reports periodically of the last trimester movements of the Stock Exchange clients.

Technologies

Java, Spring, Spring MVC, Oracle 10g, Velocity, ant