Pedro Tavares

ordepdev.me

pedrotavares.dev@gmail.com

+351932835322

Interests

distributed systems, data-intensive applications, functional programming

Relevant Experience

Talkdesk — Porto, Portugal
Software Engineer — *2018 - 2019*

- Teamed up with 2 highly skilled developers to ramp up a brand new data platform.
- Designed and developed a high throughput bridge from our core messaging system, RabbitMQ, to Apache Kafka to support all the required data processing, both in Elixir and Scala.
- Developed a stream processing layer on top of Kafka, providing a set of user-friendly DSLs to allow other teams apply their own business logic and deliver high quality read models to be queried by multiple systems afterwards.
- Delivered a highly scalable streaming API, written in Elixir, to make the connection between our data platform and real-time dashboards with multiple live subscribers. High quality standards were applied and we took care of problems like duplicates and backpressure.
- Performed as On-Call Engineer for API-Gateway and Talkdesk ID, the two entry points of Talkdesk. Created and tuned a few metrics, and wrote detailed and blameless post-mortems after the incidents, that were useful to make improvements in the affected systems.
- Evaluated candidates challenges and performed technical interviews with direct impact in the team. I was also responsible for coaching and mentoring newcomers in the team, by providing high value deep dive sessions around our core systems. Newcomers were ready to contribute after the first week on the job with pair and mob programming sessions.
- Started a weekly user group around computer science papers, mostly an in-house version of the Papers We Love meetup. It was great to see more people reading papers after each session.

Farfetch — Porto, Portugal
Software Engineer — *2017 - 2018*

- Worked closely with the architecture team to design and implement a cross-company strategy to mask sensitive personal information backed by Apache Kafka and Cassandra.
- Extracted and scaled a legacy application to thousands of users through small endpoints that were exposed on a public API, designed with a CQRS architecture.
- Increased the test depth and coverage of a core and highly-available service that it is being used by the customer service department to perform direct sales.

Jumia Services — Porto, Portugal
Software Engineer — *2016 - 2017*

- Designed, developed and tested highly concurrent and multi-timezone microservices using mainly Java, Spring Boot and Netflix OSS.
- Designed a solution to preserve the message processing ordering within multiple RabbitMQ consumers to improve the consistency of our microservices.
- Handled several concurrency issues in our data-intensive applications that dropped the error rate to nearly 0%.
- Defined a new strategy to release multiple modules that performed 10 times faster than the previous one.
- Designed and develop an end-to-end testing framework that dropped by almost 100% the time needed to test a full new feature.
- Massively increased the testing coverage of our microservices through unit, integration, contract and end-to-end testing.

Education

Faculty of Engineering of the University of Porto — Portugal
Masters in Software Engineering — *2017 - (On hold)*

Polytechnic Institute Of Cávado And Ave — Portugal
Bachelor in Health Informatics — *2009 - 2012*