Diogo Magalhães Machado

Contact Information

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Summary

A results-driven Data Engineer with extensive experience in designing and implementing scalable data solutions. Well-versed in developing clean, maintainable code and leveraging a diverse range of technologies to drive data-centric outcomes. Proven expertise in building highly scalable data-driven backend systems, with a focus on machine learning model training and support. Committed to data integrity and reliability, utilizing data warehousing and quality assertion techniques. Hands-on experience in leading multidisciplinary teams to ensure successful data-driven initiatives.

Experience

Staff Data Engineer - Risk Management Platform, Stone (May 2021 - Mar 2024)

- Developed the extraction, loading, transformation, organization, and cataloging of data within the data warehouse, facilitating the generation of inputs for training machine learning models for fraud prevention, dashboards, and data analysis.
- Developed continuous data quality assertion routines to ensure data integrity and reliability.
- Engineered data models to support machine learning model training, monitoring, business intelligence, and risk and fraud operations management.
- Designed and spearheaded the Amora project, utilizing Python to create an ergonomically comfortable environment for data analysts and engineers to describe data models and their respective transformations.

Staff Software Engineer - Accounts, Grupo OLX (Jan 2021 - Apr 2021)

Staff Software Engineer - Messaging, Grupo OLX (Sep 2019 - Jan 2021)

- Hands-on technical leadership in a multidisciplinary end-to-end product development team, responsible for user connectivity on the OLX platform through Chat, with hundreds of thousands of users connected at all times, sending more than 10 million messages per day.
- Incremental development of new multi-platform features, using experimentation with AB tests.

- Quality improvement: ensured the correct monitoring and observability of the system, creation of an change approval process and a staging environment, leading to the understanding of technical debts and action to reduce the number of incidents, resulting in a record of quality of service, observable by the uptime of 99.9 % and reduction of customer service tickets.
- Cost reduction: Messaging flow optimizations, investments in quality and understanding of the software architecture and product ecosystem resulted in a lower operation cost, with traffic 70% higher than the previous year.

Staff Software Engineer - Location, Grupo OLX (Jul 2019 - Sep 2019)

- Design, development, and migration of a legacy localization service, used in OLX's ad insertion and search indexing, reducing costs, improving code maintainability, observability, and operation.
- Investigated and fixed a memory leak issue in the iOS app (Objective-C) that has negatively impacted users with OOM related crashes since 2013.

Tech Leader at B2W Advertising, B2W Digital (Feb 2019 - Jun 2019)

Tech Leader, B2W Digital (May 2018 - Feb 2019)

- Contributed to the development and evaluation of the instrumentation of applications and the tooling of monitoring of the production environment to guarantee high availability and high scalability required by the business.
- Guaranteed that monitoring alerts and system events were assessed and prioritized.
- Contributed to the project and development of async-worker, an open-source framework, written in Python 3.7 and asyncio.

Backend Developer (Nov 2016 - May 2018)

- Designed and developed the service responsible for keeping up to date, millions of products data from Brazil's marketplace, marking extensive use of concurrent programming with Python and AsyncIO to consume and process hundreds of thousands of messages per minute.
- Designed and developed the Price Simulator, a module of the Sieve Seller product, which supports clients price intelligence by analyzing the offers the aren't featured at the Buybox and do not have the lowest price, helping to direct in which offers the customer can most effectively perform an action to increase the chances of being highlighted, providing probability of gain based on analysis and price reduction.

Software Developer, UNIRIO (Apr 2013 - Nov 2016)

- Designed, developed, and implemented the university web portal, using Plone as CMS, Varnish as a reverse proxy and cache, and Pound as a load

balancer.
- Designed and full stack developed several process automation web applications with Python, using web2py, Flask, and SQLAlchemy.

Telecomunications Intern, Força Aérea Brasileira - FAB (Jan 2006 - Nov 2006)

- Repairs and preventive maintenance of radars and radio communication devices on the Air Force's transport aircrafts.

Education

Federal University of the State of Rio de Janeiro, Bachelor's Degree, Information Systems (2007 - 2016)