Miguel Dias

DevOps Consultant

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Summary

I help organizations deploy software more often, with higher quality and fewer problems with Value Stream Mapping and DevOps.

I leverage a diverse background in DevOps, Cloud Infrastructure, Data Engineering and Analytics, in large organizations, startups, and a nonprofit.

Common challenges addressed:

- Onboard new customers faster for growing demand
- Catch quality problems in testing, not in production
- Deliver software more often
- Reduce back-and-forth communication by simplifying processes
- Reduce delays and re-work
- Waste less time

Work Experience

RELEX Solutions, Berlin

DEVOPS MANAGEMENT CONSULTANT

Jun 2024 - Feb 2025

- Added significant value by running multiple Value Stream Mapping workshops impacting over 15 teams
  - **Reducing deployment time in Project A by 64%, from 28 days to 10 days**
  - **Doubled deployment frequency from monthly to weekly**
  - Improving collaboration across different teams.
  - Conducted root cause analysis, improving incident impact/downtime.
  - **Addressing quality problems at the source** for permanent solutions instead of quick fixes that don't stick.
- Helping multiple teams to apply DevOps principles, removing bottlenecks and delivering more value to the customer.
- End-to-end visualization and measurement of the software delivery process.
- Alignment of teams towards the common goal of delivering increased customer value.

Testimonial: Jukka, Director of Engineering

- "**We just had to join the workshops and get immediate value from them.**"
- "**We invested a bit, but the outcome is huge**. Even if no further actions are taken, **simply doing the workshops shows you what the bottlenecks are, what's slowing you down, and what is hurting the processes.**"
- "It refocused our conversation on value exchange with the customer".

RELEX Solutions, Lisbon

CLOUD INFRASTRUCTURE ENGINEER

Oct 2022 - Jun 2024

- **Reduced deployment time by 68%, from 22 days to 7 days**, guided the team in an impact analysis of deployment problems and in developing a roadmap with countermeasures for happier customers.
- **Automated Cloud Provisioning**: Developed a Django application allowing the team to automate cloud infrastructure in Azure, setup with Terraform and Python, **accelerating the provisioning process from days to minutes**.
- **Cloud Monitoring Implementation**: Deployed an Azure-based, event-driven logging pipeline integrated with Datadog, with automated alerts, creating the essential capability to respond to incidents in real time.
- **Cloud Data Transfer**: Designed and implemented a file pull/push solution using Azure Data Factory, enabling data transfer capabilities across multiple cloud platforms. Conducted comprehensive analysis and communicated it across the organization.
- Collaborative Team Culture: Contributed to a team environment that values listening, collaboration and technical excellence.

Lisbon Data Science Academy, Lisbon

HEAD OF ENGINEERING (900+ STUDENTS)

Mar 2022 - Jan 2023

- **Led the engineering team and managed our internal education portal**, providing education services to our students
  - hackathons, submissions, teams and scoreboards
  - homework and capstone assignment validation and scoring
  - the lifecycle of a student at the academy
- Maintained our infrastructure with Django, Kubernetes, and AWS.
- Built and deployed tools for students using Python, FastAPI, and Docker.
- Developed a Django REST framework API to collect student submissions, presented in a Django-based dashboard, deployed to AWS Fargate.

DEVOPS ENGINEER

Mar 2020 - Mar 2022

- Authored a comprehensive guide on setting up a professional Python development environment, providing ongoing support to students.
- Implemented CI/CD pipelines for testing, releasing, and automatic grading of learning materials.

DATA SCIENCE INSTRUCTOR

Mar 2020 - Jan 2023

- **Oversaw a team of data scientists in creating and deploying educational content and tools**, offering support to students.
- Designed and conducted a Data Wrangling for Machine Learning Specialization hackathon.
- Provided mentorship during hackathons, assisting students with technical and machine learning inquiries.
- Conducted quality assurance for the Python Prep Course materials, ensuring high educational standards.

DareData, Lisbon

DATA ENGINEER - AICEP

March 2022 - June 2022

- Developed a web application to process and search documents, with NLP and Computer Vision, **achieving a 75% increase in document availability** for search with Elasticsearch.
- Wrote ETL processes with Airflow on Google Cloud Composer.
- Deployed neo4j and Elasticsearch services to GCP.
- Performed cost and feature analysis of different source control providers.

DATA ENGINEER - NOS

Nov 2021 - April 2022

- Built data ingestion pipelines using a bespoke framework with Oracle SQL, bash, Hive.
- Facilitated cross-team knowledge sharing, creating learning materials that **reduced Data Engineer's onboarding time by 3 months**.

Bond Touch, Lisbon

DATA SCIENTIST/ENGINEER

Feb 2020 - July 2021

- **Mined data for insights to drive product decisions, managing a Data Warehouse with AWS EC2, Firehose, S3, Snowflake, and Terraform**.
- Developed data collection on Android devices and cloud infrastructure for data reception.
- Built Data Marts to serve specific business use cases, working closely with product and marketing teams for reports and dashboards.
- Deployed a company-wide business intelligence solution (Chartio) and defined Key Performance Indicators with decision-makers.
- Applied NLP to customer surveys and built an internal tool for Customer Support using Django, MongoDB, SQL, AWS ECS, Fargate, and Terraform.

Mobipium, Lisbon

INTERN DATA SCIENTIST

Jan 2019 - Apr 2019

- Built a Machine Learning pipeline on AWS EC2 to predict Key Performance Indicators for advertising campaigns.

Education

University of Lisbon, Lisbon

GRADUATE WORK TOWARDS MASTERS IN DATA SCIENCE

Sep 2018 - Dec 2019

- Engaged in advanced studies in Data Science, including cloud computing and machine learning.
- Developed a Kubernetes cluster on GCP, enhancing the performance of reinforcement learning algorithms.

BACHELORS IN SOFTWARE ENGINEERING

Sep 2014 - Jul 2019

- Completed a comprehensive curriculum in software engineering with a focus on security, reliability, and software architecture patterns.

Lisbon Data Science Starters Academy, Lisbon

DATA SCIENCE BOOTCAMP

Jul 2019 - Mar 2020

- Acted as a "Student QA" in the Quality Assurance process for learning units, ensuring the accuracy and clarity of educational content.
- Mastered practical exercises and projects in Binary Classification, Data Wrangling, Time Series Forecasting, NLP, and Recommender Systems.

- Collaborated in five 6h-long team-based hackathons, tackling real-life industry problems with Machine Learning, which honed problem-solving and teamwork skills.

Technical Skills

- **Programming**: Python, Java, Kotlin, C, SQL, MongoDB, R
- **Data Science**: Jupyter, Pandas, NumPy, scikit-learn, spaCy, Matplotlib
- **Data Engineering**: Snowflake, Airflow, Digdag, Spark, Kafka
- **Web Development**: HTML/CSS/JavaScript, Nginx, Flask, FastAPI, Django, Django REST framework, Streamlit
- **DevOps & Cloud**: Docker, Kubernetes, AWS, Azure, GCP, Terraform, DataDog, Grafana

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Languages

- Portuguese (Native)
- English (Fluent)
- German (A2)
- French (A1)