

Miguel Dias

DevOps Management 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
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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, Dags, 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)