Miguel Dias

SOFTWARE ENGINEER

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Summary

Dedicated software engineer with a strong background in cloud infrastructure, data engineering, and DevOps. Proven track record of automating processes, resolving critical incidents, and leading teams to enhance productivity. Eager to apply technical expertise and collaborative skills in a dynamic environment.

Technical Skills

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

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Work Experience

RELEX Solutions, Berlin *CLOUD INFRASTRUCTURE ENGINEER*

Oct 2022 - Present

- Automated Cloud Provisioning: Developed a Django application to automate cloud infrastructure setup with Terraform and Python, enhancing the migration process and deployment efficiency.
- Cloud Monitoring Implementation: Deployed an Azure-based logging pipeline with Event Hub, Functions, and Datadog, enhancing operational oversight and response capabilities.
- Cost-Efficient Data Transfer: Orchestrated the design of a file pull/push solution using Azure Data Factory, optimizing data transfer costs and efficiency across multiple cloud platforms. Conducted comprehensive cost-analysis to maximize client savings.
- Collaborative Team Culture: Contributed to a team environment that values listening, consensus-building, and collaboration.

Lisbon Data Science Academy, Lisbon *LEAD DEVOPS ENGINEER (900+ STUDENTS)*

Mar 2022 - Jan 2023

- Managed a DevOps team, improving infrastructure with Django, Kubernetes, and AWS.
- Built and deployed tools for students using Python, FastAPI, and Docker.
- Developed a system to collect student submissions, presented in a Django-based dashboard, deployed to AWS Fargate.

DareData, Lisbon *DATA ENGINEER - AICEP*

March 2022 - Present

- 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.

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.

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

- Actively participated in quality assurance and collaborative hackathons, solving industry-based problems.

Projects

Jobs Dashboard

Nov 2020 - Feb 2020

- Developing a Web Scraping and reporting tool for job market analytics, utilizing Digdag, Nginx, AWS EC2, and Terraform.

Magic the Gathering Analytics

Oct 2019 - Dec 2019

- Created a dashboard for collectors, scraping data with Python, storing in PostgreSQL, and deploying with Flask and Apache.

Languages

- Portuguese (Native)
- English (Fluent)