

João Neves



Contacts

[LinkedIn](#) | [X/Twitter](#) | [Github](#) | [Website](#) | [Email](#)

Professional Experience

Advanced Software Engineer @ [Feedzai](#), Lisbon (*February 2024-Present*)

Conduct cutting-edge research in computer systems, including operating systems, distributed systems, and networked systems.

- Design and develop company-wide Machine Learning systems

- Collaborate with cross-functional teams to integrate research findings into practical applications and products.
- Publish research findings in top-tier conferences and journals.
- Stay updated with the latest advancements in systems research and incorporate relevant technologies into ongoing projects.
- **Technologies used:** Docker, Kubernetes, Kafka, Quarkus, Flux, Java

Senior ML Engineer @ Farfetch, Lisbon (June 2022-February 2024)

Design and implement **recommendation systems** to improve the User experience in the Marketplace

- Successfully collaborated on developing a virtual assistant by leveraging LLMs for prompt engineering and effectively deploying it as an API.
- Proficiently contributed to implementing and optimising a Vector Search Engine (Vespa) to enhance recommendation systems.
- Design and implement recommendation systems to improve the User Experience
- Produce resilient, high-available and scalable systems to host ML models (e.g., APIs).
- Support ML development by implementing Data Engineering systems
- **Technologies used:** Large Language Models (LLM), MLflow, PySpark, Pandas (Software), Kafka, Kubernetes, Azure Databricks, Airflow, Python, Flask

Lead Tech Engineer & ML Engineer @ Siemens, Lisbon (January 2019-June 2022)

Design and implement detection and analytics **cloud-based ML systems for CyberSecurity**

- In-house MLOps framework development
- Automation frameworks for clients
- Phishing analytics platform
- Malware detection engine
- Data Lake query costs optimization system
- **Technologies used:** AWS Cloud Services, Git, PyTorch, Python, Scala, Serverless Framework, Spark, Terraform

Data Scientist/Data Engineer @ Marionete, Lisbon (October 2016-December 2018)

Design and implement Machine Learning use cases

- Documents indexation with search capabilities for compliance (**Technologies used:** AWS Cloud Services, Elastic Search, Python)
- Platform to match conference attendants (**Technologies used:** Heroku, Jenkins, Python, Pandas)
- Malware detection engine (**Technologies used:** AWS Cloud Services, Keras, Python, Scala, Spark)
- Partner trainer certified by Cloudera

Software Engineer @ **SISCOG**, Lisbon (September 2013–September 2016)

Model the domain of processes of planning railroad resources

- Intensive brainstorming of functionalities with the product managers
 - Part of a development team for a new product with recent clients
 - **Technologies used:** Lisp, ACL
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Public Speaking

- **Big Things Conference** - From euros to zero: using Probabilistic Data Structures to **reduce costs**, Madrid (November 2020)
 - **MXNet Deep Learning Meetup** - AI vs Malware: Threat Intelligence @ Work, Berlin (February 2019)
 - **Seminário Diagonal IST** - Variable Selection in Football Squads, Lisbon (November 2011)
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Education

- **Master (MSc) in Mathematics and Applications (Probabilistic and Statistics)** @ Técnico, Universidade Técnica de Lisboa, Lisbon (2011-2013)
- **Degree (BSc) in Applied Mathematics and Computation** @ Técnico, Universidade Técnica de Lisboa, Lisbon (2007-2011)

Master Thesis

- **Title:** The effect of an imperfect ground-truth in the evaluation of the performance of classifiers
 - **Supervisors:** Prof. Maria do Rosário Oliveira
 - **Description:** [Link](#)
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Programming Skills


Name	Level	Scope
Python	🟢 Advanced	Daily basis usage
Java	🟢 Advanced	Daily basis usage
Scala	🟡 Average	Used in previous projects
SQL	🟡 Average	Used in previous projects
R	🟡 Average	Main language used in University
Rust	🔴 Amateur	Only reading skills
HTML	🔴 Amateur	Only reading skills
CSS	🔴 Amateur	Only reading skills
JavaScript	🔴 Amateur	Only reading skills
C	🔴 Amateur	One academic project

Languages

Lang	Level	Scope
Portuguese	Proficient	Native
English	Upper-intermediate	Working language

Interests

- 🎮 Games: Playing games is an excellent way to relax
- ⚽ Football: Everything

-  Audiovisual Art: Films and TV Shows