

DIOGO SOARES

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EDUCATION

Technical University of Munich (TUM) M.S. Computer Science	Munich, Germany 2023 - Present
École polytechnique fédérale de Lausanne (EPFL) M.S. Computer Science Exchange, Grade: 5.1/6.0, ECTS: B+	Lausanne, Switzerland 2021 - 2022
Instituto Superior Técnico B.S. Computer Science and Engineering, Grade: 17.2/20.0, ECTS: A	Lisbon, Portugal 2018 - 2021

EXPERIENCE

Carnegie Mellon University Visiting Researcher	Pittsburgh, United States September 2022 - February 2023
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- Built adaptation methods for online machine learning components with delayed labels.
- Explored shift detection, shift estimation and performance prediction techniques.
- Worked in the group of Prof. David Garlan at the Software and Societal Systems Department.

Voiceline Natural Language Processing Research Intern	Munich, Germany March 2022 - August 2022
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- Designed and implemented innovative summarization models that use POS taggers for advanced reasoning.
- Compared and studied different approaches to Speech-to-text models, namely fully deep learning based approaches and conventional search based approaches.

Amazon Web Services Software Development Engineer	Aachen, Germany July 2020 - October 2020
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- Implemented data migration techniques for heterogeneous systems containing sensitive data from Fortune 500 companies.
- Developed internal alarms and metrics for highly delicate clusters, improving internal response time by more than 50%.

Calouste Gulbenkian Foundation Undergraduate Researcher	Lisbon, Portugal October 2019 - September 2020
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- Performed a comprehensive study over the time complexity advantages of quantum backtracking over classical backtracking.
- Designed the theoretical derivation of the quantum backtracking algorithm applied to Sudoku.

AWARDS

1st prize at Quantum Information for Developers 2019 at ETH.
One of two students to represent Portugal in the prestigious Quantum Future Academy 2020, 2021, 2022.
Academic Excellence Diploma 2019/2020.

SELECTED PROJECTS

Road Segmentation

Report, Code

Implemented TransUnet based neural network architectures for EPFL's Machine Learning course.

Donald Trump and Hillary Clinton Speaker Analysis

Report, Code

Data-centric analysis of the american political scene between 2015-2017 for EPFL's Applied Data Analysis course.

Ising Model Optimization

Report, Code

Implementation of Metropolis Hastings algorithm with Houdayer move for EPFL's Markov Chains and Applications course.