NATÁLIA CAPRA FERRAZZO

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Nationality: Italian-Brazilian
Location: Paris, France

ABOUT

I am an Engineering Physicist specializing in Quantum Information and Quantum Computing at Sorbonne University, with experience in application development from my previous role at IBM. I am particularly interested in exploring quantum algorithms and optimization techniques, with a focus on quantum information theory, to advance the understanding and practical applications of quantum computing in solving complex computational problems.

EDUCATION

Sorbonne University   Paris, France
Master's Degree in Computer Science - Quantum Information   Sept. 2023 – Jun. 2026

Federal University of Rio Grande do Sul   Porto Alegre, Brazil
Bachelor's Degree in Engineering Physics   Feb. 2016 – Nov. 2022
Thesis: Grover's Search Algorithm: Comparative study of the performance of quantum hardware made available by IBM, Microsoft, and Amazon.

EXTRACURRICULAR ACTIVITIES

4EU+   Jun. 2024
Quantum Information and Quantum Many-Body Theory Summer School   University of Copenhagen, DN
Course page

THE CODING SCHOOL   Apr. 2023
Introduction to Quantum Computing with IBM Quantum   Remote

UNIGOU Internship   Feb. 2022
Paper: Solving the Traveling Salesman Problem with IBM Quantum   Remote
Course page

EXPERIENCE

IBM   Aug. 2021 – Jul. 2023

Application Developer - Full Stack
- Collaborated to develop and maintain backend services using Java and microservices architecture, ensuring modularity, scalability, and high performance for a banking investment portfolio application.
- Participated in designing and building the frontend using Angular to create a responsive and user-friendly interface for a mobile application that enabled clients to view, analyze, and manage their investment portfolios efficiently.
- Worked with QA team, assisting with testing by writing and reviewing test cases, performing code reviews, and ensuring that features met functional and performance standards.

Cadastra   Nov. 2020 – Aug. 2021

Data Scientist
- Assisted in data gathering, analysis, and visualization using Python and Google Analytics to measure results, draft daily reports, and generate insights for marketing strategies and business goals.
- Applied machine learning models and clustering techniques to forecast sales and segment customers, enabling the CRM team to personalize communication effectively.
- Collaborated with the team to develop a tool for verifying the legitimacy of affiliate assignment sales and implemented a cross-selling strategy for a travel company.

Highlighted Certifications

IBM Certified Associate Developer
Quantum Computation using Qiskit

Qiskit Advocate

IBM Quantum Challenge
2024 Achievement

IBM Quantum Challenge Fall
2022 Achievement - Advanced

Qiskit Global Summer School 2022
Quantum Excellence

IBM Quantum Spring Challenge
2022 Achievement

IBM Data Science
Professional Certificate

Nanodegree Program
AWS Machine Learning

To check other achievements, please visit my Credly page.

Languages & Skills

Languages: Portuguese (Native) · English (C2) · French (B1) · Spanish (B1)

Skills: Quantum Computing · Machine Learning · Data Science · Python · SciPy · NumPy · Pandas · Git · Qiskit SDK · Watson Studio · Jupyter Notebook/Lab · Postman · Docker · Agile Methodology · Javascript · Node.js · SQL · ETL · Typescript · Angular · JAVA · OOP · HTML · CSS

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