

# ITAMAR ROCHA FILHO

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**Languages** Native Portuguese, Fluent English, Intermediate French.

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## EXPERIENCE

### Software Engineer Intern - Praso

05/2022 - Present

Praso is a startup based in Brasil that aims to help Small and Medium Businesses to buy cheaper products with quality service and delivery. I am responsible for developing and maintaining the company's mobile app. The app is available in both Play and Apple store and is currently responsible for 37% of the monthly GMV, which is growing fast near 1 million dollars.

### Software Engineer Intern - Meta

01/2022 - 04/2022

I worked on the AI for AR team. The team is focused on cutting-edge research in computer vision and audio. My internship involved adapting a state-of-the-art model to use Meta's production environment, cleaning, refactoring the code and deploying it for further testing and production use.

### Software Engineering Intern - Google

08/2021 - 11/2021

I worked on Google Search - contextualization team. My work consisted of doing data exploration and analysis of a new data source, creating an end-to-end demo (Data Generation + Analysis + Back-end + Front-end). After completing my demo, I was able to increase the original feature's coverage by 68.38%, while maintaining a high data quality.

### Research Initiation Fellow - UFPB

09/2020 - 09/2021

Developed an approach to automatically describe characters — in a video or in an image — combining Deep Learning (DL), Face detection, Facial Expression detection techniques, and audio synthesizers. Our proposal uses the detection tools, applies some DL models to the analyzed data, and generates an audio description. The research paper was published on WebMedia.

### Combinatorial Optimization Developer - Atoptima and UFPB

11/2020 - 04/2021

Atoptima is a french startup in decision support system aiming to offer cutting-edge mathematical optimization to all businesses requiring resource assignment optimization. My job consisted of documenting/testing/building private software and optimizing Coluna.jl a mathematical programming solver.

## EDUCATION

**B.S in Computer Engineering - Universidade Federal da Paraíba - 9.59/10**

07/2018 - 06/2024 (expected)

## TOOLS AND INTERESTS

**Tools** Julia, C, C++, Python, JavaScript, Flutter, PyTorch, TensorFlow, Git, Linux.

**Interests** Software Engineering, Machine Learning, Operations Research, Mobile Development.

## EXTRACURRICULAR ACTIVITIES

### Ex-President, Co-Founder and Advisor TAIL - UFPB

08/2020 - Present

TAIL (Technology and Artificial Intelligence League) is a non-profit organization that is oriented by the ARIA LAB professors. The Academic league aim is to teach new students, produce content, contribute to AI and Data Analysis field and help the members achieving their goals (internships, graduation programs, full-time jobs). It currently has 65 active members.

## PUBLISHED PAPERS

**An Approach for Automatic Description of Characters for Blind People**

**WebMedia 2021**

**Iris-CV: Classifying Iris Flowers Is Not as Easy as You Thought**

**BRACIS 2021**

## RELEVANT CERTIFICATES

**Deep Learning Specialization - deeplearning.ai (Cousera)**

09/2020

**DAT257x: Reinforcement Learning Explained - Microsoft(edx)**

05/2020

## HONORS AND AWARDS

### Fellow Tech - Fundacao Estudar

09/2021

This process selects students that will lead Brazil's technological revolutions. It is a merit-based scholarship, founded by prominent Brazilian businessmen Jorge Paulo Lemann, Marcel Telles, and Beto Sicupira. It includes a grant to pursue studies abroad, mentorship, and career support.