

ITAMAR ROCHA

+55 83 99444-7289 - itamardprf@gmail.com

Languages Native Portuguese, Fluent English, Intermediate French and Basic Spanish.

Github : ItamarRocha **Linkedin** : in/itamarrocha **Personal Site** : <https://itamarrocha.github.io>

EXPERIENCE

Combinatorial Optimization Developer -Partnership between Atoptima and UFPB 11/2020 - Ongoing
Atoptima is a french software editor in decision support system aiming to offer cutting-edge mathematical optimization to all businesses requiring resource assignment optimization. The project consists of documenting/testing/building private software and optimizing Coluna.jl a mathematical programming solver.

Project Manager - Integrated Command and Control Center (CICC) 11/2020 - Ongoing
Management and documentation of the project. The project consists of developing a platform that integrates different Federal databases in real time, using different classified documents and tracking information provided by the treasury office.

Research Initiation Fellow - UFPB 09/2020 - Ongoing
Applied Computer Vision techniques, and state of art methods to develop a Deep Learning tool to be used to describe films to visually impaired people.

Data Scientist Intern - Armazém Paraíba 07/2020 - 10/2020
The Armazém Paraíba is one of the most traditional companies with the greatest influence in northeastern Brazil, with an approximate net worth of US\$ 2 billion (2018). During my internship, I made use of time series forecasting in the sales data of all 65 stores of Armazém Paraíba in Brazil. Through statistical models and machine learning, such as Prophet, Arima and various regressions.

Software Developer Intern - LAVID 09/2019 - 12/2019
Developed a surveillance system at Laboratory of Digital Video, as a project of software engineering to the Federal University of Paraíba.

EDUCATION

B.S in Computer Engineering Universidade Federal da Paraíba - 9.68/10 07/2018 - Ongoing

Exchange Student English Course - Kaplan International Languages London 03/2018 - 06/2018

TOOLS AND INTERESTS

Tools Julia, C, C++, Python, Javascript, HTML, MQL5, Pandas, Tensorflow, Numpy, Scikit-learn, Matplotlib
Flask, CPLEX, GLPK, SQL, Git, Linux.

Interests Software Engineering, Deep Learning, Reinforcement Learning, Data Analysis, Computer Vision, Algorithms, Operations Research
Stock Market Analysis.

PROJECTS

Revisai - CEO
Platform to execute ENEM mock tests (Brazilian SAT). Revisai was developed to serve more than 700 students during the pandemics, to aid them in practicing for the ENEM and to revise the subjects.

Binary-Bot
Binary-Bot was my Artificial Intelligence class project. It consists of an automatic trading system in a binary option API (EUR/USD) using neural networks.

Student Allocation Problem (SAP)
SAP is an implementation of a Mathematically modeled problem, which was based on allocating students to advisors given some predefined constraints. This project was done in a real scenario at a school named Medway - João Pessoa (approximately 270 students).

GANdido Portinari
GANdido is the Digital Image Processing class project.

Interests Software Engineering, Deep Learning, Reinforcement Learning, Data Analysis, Computer Vision, Algorithms, Operations Research
Stock Market Analysis.

Me and my colleagues used a CycleGAN to generate images that are similar to the paintings of Candido Portinari, a famous brazilian painter.

EXTRACURRICULAR ACTIVITIES

President and Co-Founder TAIL - UFPB 08/2020 - Ongoing
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 and contribute to Artificial Intelligence and Data Analysis field.

Member of ARIA - UFPB 06/2019 - Ongoing
Studying, developing personal projects and aiding new students in the introductory basis of Machine Learning and Deep Learning with the supervision of UFPB Professors.

Medway student advisor 01/2018 - 01/2021
Medway is a preparatory school to ENEM (Brazilian SAT). My work consisted of advising students in their last High school year throughout the ENEM preparation.

Stock Market Analyst - Liga de Mercado Financeiro (LMF - UFPB) 01/2020 - 10/2020
Analyzing and studying Brazilian stock market and its companies along with developing quantitative strategies and automating systems using MQL5 , C++ and Python.

Volunteer Boolean Algebra and Logic Circuits tutor - UFPB 02/2019 - 10/2019
The work as a volunteer was awarded a Teaching Initiation Honor. The class was one with the lowest approbation rates (60 %) which was changed to 90% by the end of our work.

RELEVANT CERTIFICATES

Deep Learning Specialization - deeplearning.ai (Cousera) 09/2020

AWS Fundamental Course - Udacity 06/2020

DAT257x: Reinforcement Learning Explained - Microsoft(edx) 05/2020

HONORS

Teaching Initiation Award - UFPB 11/2019
Awarded for the work done in the tutoring of Boolean Algebra and Logic Circuits class.

greater accumulated profitability - Stock Market League(LMF) 08/2020
Achieved 56,36% against 27,83% of ibovespa index.

3° place at the First Order of Attorneys of Brazil (OAB) Hackathon in Paraíba 08/2020
Along with the team, developed HERMES, a tool to track the governmental expenses with COVID-19.