

# ITAMAR ROCHA

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## PERSONAL INFORMATION

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<b>Date of Birth</b>	17 Jan 2000
<b>Languages known</b>	Fluent English, Intermediate French, Native Portuguese and Basic Spanish.
<b>Residential address</b>	Coronel Miguel Satyro street, 170 - Cabo Branco, João Pessoa - PB, Brasil, 58045110
<b>Github</b>	ItamarRocha
<b>Linkedin</b>	in/itamarrocha
<b>Personal Site</b>	<a href="https://itamarrocha.github.io">https://itamarrocha.github.io</a>

## EDUCATION

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<b>Bachelor in computer engineering - 3.88 GPA</b>	07/2018 - Ongoing
Federal University of Paraíba (UFPB), João Pessoa - PB	
<b>Exchange Student - English Course</b>	03/2018 - 06/2018
Kaplan International Languages, Covent Garden - London	

## EXPERIENCE

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<b>Researcher - Scientific Initiation Scholarship - UFPB</b>	09/2020 - Ongoing
The project consists of applying Computer Vision techniques and state of art methods to improve CineAD, which is a Deep Learning tool used to describe films to visually impaired people.	
<b>Data Scientist Intern - Armazém Paraíba</b>	07/2020 - 10/2020
The Armazém Paraíba is one of the most traditional companies with the greatest influence in northeastern Brazil. 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.	
<b>Software Developer Intern - LAVID</b>	09/2019 - 12/2019
Developing a surveillance system at Laboratory of Digital Video as a project of software engineering to the Federal University of Paraíba.	

## TOOLS AND INTERESTS

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<b>Tools</b>	Julia, C, C++, Python, Javascript, HTML, MQL5, Pandas, Tensorflow, Numpy, Scikit-learn, Matplotlib, CPLEX, Gurobi, GLPK, SQL, Git, Linux.
<b>Interests</b>	Deep Learning, Reinforcement Learning, Data Analysis, Computer Vision, Algorithms Stock Market Analysis, Operations Research.

## PROJECTS

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<b>Revisai - CEO</b>
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.
<b>Binary-Bot</b>
Binary-Bot was my AI class project. It consists of an automatic trading system in a binary option API (EUR/USD) using neural networks.
<b>Bass-tab generator (BTG)</b>
The second of my AI class projects. BTG is a Software designed to generate bass tabs using LSTM and data from different rock bands.

### 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).

## EXTRACURRICULAR ACTIVITIES

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### 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 - Ongoing

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 - Stock Market League (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

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### Reinforcement Learning Specialization - University of Alberta (Coursera)

Ongoing

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

09/2020

### AWS Machine Learning Foundations Course - Udacity

06/2020

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

05/2020

## HONORS

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### Teaching Initiation Award - UFPB

11/2019

Awarded for the work done in the tutoring of Boolean Algebra and Logic Circuits class.