

# João Victor Palhares Barbosa

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## Summary

NLP Engineer, Data Scientist, Data & Analytics, +5 years of experience with programming, RASA Chatbot Developer, IIoT & IoT Developer, DevOps Developer, experience working at Cognitive Computing Innovation Studio. Particularly interested in Artificial Intelligence in Medicine, Robotics, Mobile Robotics, Autonomous Guided Vehicles, Robotics with BioMechanics, Robotics Prostheses, Computer Vision, MLOps, SKLearn, PyTorch, TensorFlow, methods of Deep Learning: Convolutional Neural Networks and Recurrent Neural Networks. Currently working with RASA in a project with more than 30 Million of messages exchanges monthly.

## Education

**Arthur de Azevedo Technological Faculty - FATEC Mogi Mirim**

2020 - 2022

Concentration: Industrial Mechatronics Technology

**Technical College of Limeira of the State University of Campinas - COTIL UNICAMP**

2017 - 2019

Concentration: Computer Technician

## Professional Experience

**NLP Engineer** – Compass.uol

July 2021 - (Current)

- I. Currently working with RASA Chatbot at PagSeguro PagBank.

**Intern – Development of Artificial Intelligence to Chatbots** – Compass.uol

April 2021 - July 2021

- I. During the selection process, 4 tests were created, I was able to develop API, use OOP in Python, use MongoDB, create a Neural Network of Regression, Neural Network of Classification, Data Visualization, create a diabetes classifier to prevent diabetes using Machine Learning, Sentimental Analysis of articles with SpaCy using MultinomialNB and RandomForestClassifier.
- II. In the end, we created a chatbot RASA to FATEC Arthur de Azevedo.

**Intern – Firmware Developer** – Phi Innovations

Jan 2021 - Apr 2021

- I. Working with C/C++ programming and NuttX on STM32 - Nucleo L152RE & ESP8266.

**Intern – Developer & Tester IoT** – Phi Innovations

Jun 2020 - Apr 2021

- I. Working with IoT Technologies: MODBUS, MQTT, IoT Gateway application, Node-Red, InfluxDB, Grafana, Linux, CodeSys, Elipse SCADA, IoT Security, among others. Programming with C, C#, C++, QT, Node.js, and JavaScript, STM32, Testing Firmware, and Applications for the customers. Knowledge in electronics, programming, and conversation with customers. Creation of documents to cover new technologies and work methodology.
- II. Lastly, instructing new employees to work.

<b>Intern – Full-Stack Developer</b> – Valore Marketing and Technology	Aug 2019 - Dec 2019
I. Working with full-stack Technologies on Web Development: CodeIgniter (Framework), PHP, JavaScript, HTML, CSS, Bootstrap, and others. Creating custom Web pages and systems for customers.	
<b>Intern – Analyst of Information Tecnology (DevOps)</b> – Wide Software	Dec 2018 - Jan 2019
I. Working with DevOps Technologies: AWS Cloud (Amazon Web Services - EC2, Route53, S3, IAM, APIGateway, ELB, AutoScalling, and others), Jenkins, Zabbix, Puppet, Git, NGINX, PHP-FPM, MongoDB, ElasticSearch, MySQL and Apache Kafka. Programming with Shell Script Bash, SH Linux for triggers on Grafana and managing, configuring, analyzing, installing, and updating servers. Lastly documentations on Jira Software - Atlassian and agile methodology - Kanban.	
<b>Previous Experiences Omitted</b>	Prior to Dec 2018

## Honors & Awards

<b>Silver Medal in: ROBOCODE local tournament (LIAG - UNICAMP)</b>	Oct 2020
Issued by UNICAMP Faculty of Technology - FT	
<b>Gold Medal in: ROBOCODE local tournament (LIAG - UNICAMP)</b>	Sep 2020
Issued by UNICAMP Faculty of Technology - FT	
<b>OBMEP 2019 Honorable Mention Medal - LEVEL 3</b>	Dec 2019
Medal for completing the first and second phases of the OBMEP 2019 test.	
<b>Bronze Medal in: ROBOCODE local tournament (LIAG - UNICAMP)</b>	Oct 2019
Issued by UNICAMP Faculty of Technology - FT	
<b>Silver Medal in: ROBOCODE local tournament (LIAG - UNICAMP)</b>	Oct 2019
Issued by UNICAMP Faculty of Technology - FT	
<b>Medal in: Brazilian Astronomy and Astronautics Olympiad - OBA</b>	Nov 2016
Bronze medal, earning a grade of 8.75 in the OBA test - Brazilian Astronomy and Astronautics Olympiad.	
<b>1TPR - Brazilian Robotics Olympiad: 1st Paulista Robotics Tournament</b>	May 2016
1st Paulista Robotics Tournament with rules of: Brazilian Robotics Olympiad (OBR).	

## Volunteering

<b>Programming and Arduino Tutoring</b>	Jan 2021 - Dec 2021
Education - Arthur de Azevedo Technological Faculty – FATEC Mogi Mirim	
<b>Student &amp; Room Representative</b>	Jan 2020 - (Current)
Education - Arthur de Azevedo Technological Faculty – FATEC Mogi Mirim	
<b>Tutoring and Presenter</b>	Sep 2018 - Aug 2019
Education - Campinas State University – UNICAMP	
<b>Previous Experiences Omitted</b>	Prior to Sep 2018

## Licenses & Certifications

<b>AWS Partner: Accreditation (Technical)</b>	Dec 2021
Check it out: <a href="https://credly.com/badges/d2745bd2-fdbe-4dba-81a9-dbc16be10261">credly.com/badges/d2745bd2-fdbe-4dba-81a9-dbc16be10261</a>	
<b>AWS Partner: Machine Learning on AWS (Technical) (Portuguese)</b>	Dec 2021
Credential ID: E-086J3V	
<b>Rasa Developer Certification</b>	Oct 2021
Credential ID: FLTSDLDTDL-HDRHJRKH-WNWTFBWFFW	
<b>Data Science: Analysis for Health and Medicine</b>	Oct 2021
Check it out: <a href="https://cursos.alura.com.br/certificate/a4b4e07f-edda-410c-b15b-ba895a8e4d6e">cursos.alura.com.br/certificate/a4b4e07f-edda-410c-b15b-ba895a8e4d6e</a>	
<b>MLOps: Machine Learning &amp; API's</b>	Oct 2021
Check it out: <a href="https://cursos.alura.com.br/certificate/84ca3000-71cd-4c66-a970-08e05b14a6c1">cursos.alura.com.br/certificate/84ca3000-71cd-4c66-a970-08e05b14a6c1</a>	
<b>Neural Networks: Deep Learning with PyTorch</b>	Apr 2021
Check it out: <a href="https://cursos.alura.com.br/certificate/07f6858e-6272-4d1e-9969-6e85260123b4">cursos.alura.com.br/certificate/07f6858e-6272-4d1e-9969-6e85260123b4</a>	
<b>Previous Experiences Omitted</b>	Prior to Mar 2021

## Skills & Abilities

### Programming / Markup / Data API / Technologies

C/C++, C#, QT, Python, RASA, NLP, SpaCy, RPA, OpenCV, Computer Vision, MLOps, AutoML, SKLearn, PyTorch, TensorFlow, Markdown, Git, Github, PHP, HTML, CSS3, Bootstrap, Node.js, JavaScript, CodeIgniter, Bash, Shell Script, MySQL, MongoDB, Elasticsearch, InfluxDB, Jenkins, Zabbix, AWS (Amazon Web Services), Amazon EC2, Amazon S3, Amazon Lex, Watson Assistant, AWS IoT, Nginx, Apache Kafka, Kubernetes, Docker, MQTT, Arduino, Esp8266, STM32, NuttX, Raspberry Pi, ModBus, Node-Red, Grafana, CodeSys, Elipse Scada.

### Methods

Casual Inference and Experimental Design & Thinking, Mathematical & Statistical bases, Machine Learning, Natural Language Processing (NLP), Documentation reading and writing purposes.