Pedro Henrique Carvalho Alves

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Profile

I always search for increasing my knowledge about technology, especially in Quality Assurance area, software tests and automation tools for testing. I've implemented some automation processes in my previous companies like using pyautogui to automate Desktop Applications, Jenkins integrated with Selenium + Python to run tests in a regular basis, Postman + Newman integrated with Python Tkinter APPs to run API tests. Besides that, I also gave some support to the rest of the QA team which used other tools like Cypress and Playwright.

Hard Skills

- **Technical Skills:** Python, Javascript, SQL, sqlite3, Gherkin, Cucumber, Django, Flask, Tkinter
- **Test Frameworks:** Selenium, Cypress, Pytest, Playwright
- **CI/CD Tools:** Bitbucket, Jenkins
- **API Testing:** Postman, Insomnia, GraphQL, K6, JMeter
- **Data Bases:** SQL, sqlite3
- **Testing Management:** XRay, Zephyr Scale
- **Project Management:** Jira, Confluence, Slack
- **Software Testing Skills:** Scrum, BDD, Design Patterns in Automation

Soft Skills

- Responsibility
- Teamwork
- Commitment
- Interest in Self-development
- Integrity
- Loyalty

Achievements

- Full UI automation using Robot Framework. I attained that during my first job in which they allowed me to learn how to automate using Robot Framework from scratch. I automated the UI features and common user actions. This reduced the number of manual tests we required and also could find some bugs in advance once we had the new mergers. **Technologies used: Robot Framework, Python**
- I built a Python Tkinter APP in which we could execute our API tests and UI tests and see the reports generated in our browser. It allowed us to execute our tests in a User-friendly way instead of going to the terminal and typing commands. This also helped to present the

automation to the end users. The UI shows some options and once the user chooses one, it will automatically execute the tests. **Technologies used: Python, Tkinter, sqlite3**

- Python terminal menus to execute our API testing and execution of API tests in parallel. This helped reduce the time taken to finish the execution. Instead of executing each foolder of the API, it allows to execute more than one API folder at the same time. **Python, Linux Shell Script.**
- Developed a personal project to gather information from Transfer Market related to soccer players from all over the world and allow the user to access the information pulled from my local SQlite3 database using my own API developed with Django. **Technologies used: Python, Django, Sqlite3, Selenium with Python**
- I wrote automated tests in Selenium with Python using Design pattern Page Objects which made the maintenance of the code easier as well as the reviews of pull requests. **Technologies used: Python, Selenium with Python, Pytest**
- Designed a Jenkins pipeline to automatically execute the API Postman collections using newman and the UI tests in Selenium with Python. **Technologies used: Python, Jenkins, Selenium with Python, Postman, Newman**

Experience

I am bachelor in computer engineering graduated from National Institute of Telecommunications (INATEL) University in 2019.

I worked in a project using Java Language and CSharp during the period of my Science Initiation at my University.

I have a background in Robot Framework, automated tests and API tests using Postman and Newman. Write tests on Zephyr Scale integrated to Jira for organizing tests, create test cycles and test plans.

At the moment, I have been working with tests in Python, API (Postman + Newman) using test diagrams and writing tests on Cucumber to execute automated tests.

I have executed tests for single page applications developed using Angular, Node, Express and similar.

Creation of menus inside the terminal to execute automated tests in Python and API.

Defect tracking, and bug reporting using Zephyr Scale, JIRA and XRay.

Background in Python, pyautogui and tkinter apps to make the test execution friendlier and easier compared to the command execution.

College Degrees

National Institute of Telecommunications – INATEL – Computer Engineering, Graduated in 2019, July.

IFSULDEMINAS – Câmpus Machado, IT Technic, graduated in 2013.

Languages

Portuguese – Native Language

English – Advanced 1 (C1) certificate by English Live. CEFR level C1.
https://www.efset.org/cert/sjVzGx

Experiences

- Trainee in AXNET company, a network provider company, localized in Machado city, Minas Gerais State.

- Science initiation, Rehab Project, in the CTTDA, localized inside the INATEL university. I worked in this project from 2017 March to 2018 March.

- Trainee in Leucotron Equipamentos LTDA from 2018 September to 2019 July, focused in create manuals to the company´s products and test the products created by the programmers. I did the test scenarios focusing on the quality of the products, validating the requirements and writing reports to tell my manager or my team leader.

- Quality Assurance Analyst in Riversoft company from November 2019 to March 2021, my duties were testing the products, finding bugs on the Software, reporting the found bugs, writing reports to tell my team leader, having meetings where I planned my test schedule for the week or sprint.

- Quality Assurance in Inatel Competence Center from March 2021 until now, my duties are focused on API tests, development graphs and report bugs and improvements on software. Introducing python AUTO GUI automate tool. Writing tests with Cucumber/Gherkin for executing in python. Introducing Cypress automation tool for Web Platforms.

- Quality Assurance at Integritas INC from March 2023, current position, my duties are focused on manual API tests, automated tests using Postman and Newman. Integration with Jenkins, creation of pipelines and automated UI tests using Selenium with Python. UI automation with Page Objects Model in Python and Tkinter APPs for executing newman API tests.

Education and Courses

- Assembly and Maintenance Course. Taught by IFSULDEMINAS - Câmpus Machado, 8-hour workload, May/2012.

- Programming course in Delphi. Taught by IFSULDEMINAS - Câmpus Machado, 8 hours workload, May 2011.

- Debian 6 Network and Mobile Users Configuration Course. Taught by IFSULDEMINAS - Câmpus Machado, 8-hour workload, May/2012.

- Volunteer Professor in the Area of Informatics, Casa Viva Inatel, in 2016.
- Publication scientific article at the INCITEL congress, from June 4 to 6, 2018.

- Introduction course to Mobile Communications, 2G, 3G and 4G - INATEL, 40 hours april/2018 workload.

- Excel course - INATEL, 20-hour workload April/2018.

- IP Networks Course + VLAN - INATEL, workload of 20 hours April/2018.

- Huawei Products Course - INATEL, 08-hour workload April 23, 2018.

- Test Automation with Robot Framework - Basic, spent time - 04 hours. https://udemy-certificate.s3.amazonaws.com/image/UC-062d4edd-6baf-43b5-83ee-e4976d7d04f2.jpg?v=1603884953000

- Automation of API Tests with Postman + Test Project - January 3, 2021, spent time of 09 hours. http://ude.my/UC-907ffc54-5f4e-43df-8781-cd09e89875f8

- Course for CTFL Test Certificates - ISTQB/BSQTB , spent time - 10 hours. https://www.udemy.com/certificate/UC-84b9ca85-b0f1-48c5-be16-b3cbd5dce703/

- Playwright JS Automation Testing from Scratch with Frameworkspent time – 15.5 hours. https://www.udemy.com/certificate/UC-509646ac-73a9-4c6f-99f7-c3af6acf5f17/

- Telecommunications network management course - INATEL, spent time - 08 hours April 24, 2018.

- Course of provisional installation projects - INATEL, spent time - 40 hours workload april/2018 workload.

- Statistics with Python 1: Frequency and Measure, spent time - 10 hours. https://cursos.alura.com.br/certificate/27ae6bbd-75f6-443a-bed3-0f7835c31654

- Learn Selenium with Python, PyTest + Live Project – 46.5 hours. https://www.udemy.com/certificate/UC-ef00b3ea-45fe-4269-a2df-978336b0dfc2/

- Scientific Article published in INCITEL congress, held in 2018, July, from 4 to 6. https://inatel.br/incitel/documents/2018.pdf Article Title: Desenvolvimento de interface grafica para jogo de reabilitacão de membro superior

- Excel course, concluded in 2018, April, spent time - 20 hours.

- Network and IP Protocol, concluded in 2018, April, spent time - 20 hours.

- 100 Days of Code: The Complete Python Pro Bootcamp for 2023 – 58 horas. https://www.udemy.com/certificate/UC-78e51082-453e-4c4b-ac35-c1fa9ba7c4a8/. Projects developed through this course: https://github.com/PedroCarvalho1500/bootcamp_python

- ## **Volunteer Work**

- IT Volunteer Teacher in Casa Viva Inatel , a middle school maintained by INATEL university.