

Nelson Luiz Serpa de Oliveira

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EDUCATION

Universidade de São Paulo (USP)

Computer Information Systems

- Evening course, 40h/Week availability

São Carlos, SP - Brasil

Feb 2019 – Dez 2023

EXPERIENCE

Backend Intern - AMDOCS

World leading Software provider for Telecoms

- Implemented Bash, Pro*C and SQL scripts for a clients database migration.
- Maintenance and testing of Java Web applications (Oracle Weblogic stack: EJBs, JSPs; Junit).
- Recurrent meetings in English with foreigners.

São Carlos, SP - Brasil

Nov 2021 – Nov 2022

Data Mining Intern - Sigalei

Political monitoring services company

- Responsible for building reliable Web Crawlers using Python (Scrapy, BeautifulSoup).
- Consumed Twitter API: modeled, standardized and stored tweets data.
- Implemented an internal API for serving consumed tweets data (Flask API).
- Test Driven Development approach (pytest); Use of good Git/Clean Code Practices; Contact with CI/CD.

São Carlos, SP - Brasil

March 2020 – Feb 2021

Vice President - USPCoDeLab (currently Advisor)

University extension group

- Responsible for managing a 40 members team that promotes Hackathons, coding projects and courses to diffuse new technologies in University
- Hackathons received sponsor from companies such as Google and Facebook; over 300 participants
- Web Development courses had over 200 participants.

São Carlos, SP - Brasil

Jan 2020 – Current

Volunteer Teaching Assistant - PET Codifique

Introductory Programming course for High Schoolers

- Responsible for preparing classes and helping students.

São Paulo, SP - Brasil

Feb 2019 – June 2020

Volunteer Teaching Assistant - Smartphones course for Elders

Digital Inclusion Course that helps elder people using a smartphone

- Responsible for helping students using Apps and giving security advices.

São Carlos, SP - Brasil

Feb 2019 – June 2019

PROJECTS

Personal Website — nelsonserpa.com

<https://github.com/nluizoliveira/personal-website>

- Pursued learning how complex webdev tasks are handled underneath by using as little frameworks as possible. As a tradeoff, there's much to improve in performance and security.
- Frontend runs a SPA in pure HTML/CSS/Js through Stateful MVC Components. Routes are handled through history api. Backend runs in Node.
- Deploy was manually configured in a VPS, from setting DNS records and firewall to Nginx configuration as a reverse proxy. The process is fully documented in the blog

Frontend-API-Mysql POC

github.com/nluizoliveira/API-middleware-dbConnector-POC

- Frontend/Backend website, implemented through an API/ middleware/ dbConnector pattern for a simple library system.
- Backend API implemented in Python's Flask manipulates and retrieve data from a MySQL database.
- Frontend implemented in pure HTML, CSS and Javascript allows creating, searching for and deleting books.

SKILLS

General Programming: C, Java, Python, Bash, SQL

Data Mining: ETL for extracting websites data pipelines. APIs consuming and development. Schedule and deploy scripts. Python, Scrapy, BeautifulSoup, Flask.

Web Development: React, Node, Javascript, HTML, CSS. Building responsive Websites. Implementing APIs.

Languages: Proficient English (Toefl ITP C1 Certificate). Native Portuguese.