JEAN LOUI BERNARD SILVA DE JESUS

Software Enginner | Full-stack | B.Sc. Computer Science

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https://jeanloui.dev

I seek working on challenging projects that deliver impact on the product and the team's performance, applying my skills in software engineering, algorithms, data structures, and optimization.

EXPERIENCE:

Jusbrasil | Software Enginner (Fullstack)
Internship, Brazil, Remote
August, 2024 - Present

- Implementation of API in Golang, information retrieval, and prompt creation for LLM; Management of GQL and GraphQL service APIs in TypeScript, as well as management of the Nginx service; Development of landing pages and new front-end features in React, and implementation of experiments; Implementation of unit tests in both back-end and front-end.

Escavador | Software Enginner
Internship, Brazil, Hybrid
November, 2022 - July, 2023

- Designed and set up the search engine used by Escavador to storage and search billion of documents from several brazilian law courts and government gazettes; Built a high-performance asynchronous indexer in Python to feed the search engine with entities from multiple MySQL databases — in addition to developing new features for the Vespa.ai repository.

More experiences and information can be found here.

EDUCATION:

Federal University of Bahia
Bachelor's Degree in Computer Science
August, 2021 - Present

Member of GruPro — university's group, aimed at programming competitions, such as ICPC.

Google Cloud Academy
Google Cloud Computing Foundations Academy
March, 2024 - April, 2024

Google's program certificate and more Google certificates can be found here

edX - IBM's MicroBachelors Program
Full Stack Application Development
January, 2024 - Present

IBM certificates can be found here.

Harvard Online
Full Stack Application Development
January, 2024 - Present

Harvard certificate here.

More certifications and information can be found here.

SKILLS:

Programming Languages, Markup and Styling Languages:
Python, TypeScript, JavaScript (Web Browser and Node.js), Golang, Java, and C++; HTML, XML, and CSS.

Web Frameworks, Web Scraping, SQL and NoSQL Databases, and Data Modeling:
FastAPI, Django, Flask, and Express.js; APIs, SOAP and REST, JWT, BeautifulSoup; SQLAlchemy, Peewee, Prisma, MySQL, PostgreSQL, and MongoDB; Entity Modeling and Relational Mapping.

Cloud Services, APIs, Messaging, Scheduling, and Containerization:
Google Cloud and IBM Cloud services; GraphQL; RabbitMQ and Kafka; Airflow; Docker and Podman.

Unit Testing, Package Creation and Management, Version Control, CI/CD: Frameworks:
Pytest, Unittest, Jest, Mocha, and Chai; Package creation and management with PIP, Hatchling, Poetry, and NPM; Git, GitHub, GitLab, and Actions.

Clean Code, Design Patterns, Project Standards, and Microservices Architecture:
Clean-code development following SOLID principles; Procedural Programming, Object-Oriented Programming, and Functional Programming; Application of design patterns such as Observer, Singleton, Factory, among others; MVC and MVP patterns; Microservices architecture.

Soft Skills and Agile Methodologies:
Design Thinking, Scrum, Kanban, OKRs (Objectives and Key Results).

Data Structures, Efficient Algorithms, and Complexity Analysis:
Search, sorting, data compression, hashing algorithms, among others; Data structures such as trees, graphs, arrays, linked lists, stacks, and queues; Time and space complexity analysis.

HONORS & AWARDS:

Bronze Medalist (3rd out of 25) at the 2024 ICPC South America/Brazil First Phase
ICPC (International Collegiate Programming Contest), On-site
August, 2024

Global Rank: 131th
Bronze Medalist of Bahia

Honorable Mention - IBM: Marathon Behind the Code (2019)
IBM, Remote
August, 2019

Placed 83th of top 100 at the challenge 01 — Pão de Açúcar Group
Placed 23th of top 100 at the challenge 04 — Boticário Group

More information about the competitions held, achievements, and results can be found here.

VOLUNTEER EXPERIENCE:

Staff Member at ICPC Latin America Championship 2025   March, 2025 - March, 2025
ICPC (International Collegiate Programming Contest), On-site

Contributed to the organization of the competition.

Competitive Programming Instructor   August, 2023 - November, 2023
Institute of Computing | UFBA, Hybrid

Conducted competitive programming classes and worked as a problem-setter.

Speaker at Python Development Workshop - SEMCOMP 23   September, 2023 - November, 2023
InfoJr UFBA | SEMCOMP 23, Remote

Produced and led a workshop, talking about the Python-3 programming language and its technologies; Built a mini project during the workshop with Flask to upload and edit metadata of music files on a web server.
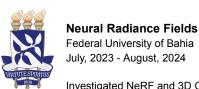
More volunteer experiences and information can be found here.

RESEARCHES:

Neural Radiance Fields
Federal University of Bahia
July, 2023 - August, 2024

Investigated NeRF and 3D Gaussian Splatting algorithms for the reconstruction of 3D objects using Neural Rendering.

PROJECTS:

FlightRadarAPI   [Repository](#)
Python & Node.js SDK

It is an SDK for Python and Node.js — published on PyPI and npm — to retrieve information about flights, aircraft, and airports, sourced from the Flightradar24 website.

PyMemoryEditor   [Repository](#)
Python Library

A cross-platform library, developed with ctypes in Python — published on PyPI — for reading, writing, and searching process memory on Windows and Linux (32 and 64-bit). The project also includes a graphical user interface application built with Tkinter..

More projects and information can be found [here](#).

CONTRIBUTIONS ON STACKOVERFLOW:

Has been contributing to the [StackOverflow](#) platform since 2019, helping thousands of people by providing highly detailed answers to specific, practical, or theoretical questions about algorithms, tools, and software development techniques — with over 230 questions answered — ranking among the top 150 users on the platform.