

Joel da Silva Pereira Filho

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EDUCATION

UFMA – Universidade Federal do Maranhão

Bachelor's Degree in Computer Science

São Luís, MA, Brazil

2nd Year

EXPERIENCES

Applied Computing Group NCA-UFMA

Researcher

São Luís, MA, Brazil

Aug 2023 - Currently

- I actively participate in a Scientific Initiation Program (PIBIC) focused on the detection of cancer cells in Atomic Force Microscopy (AFM) images using deep learning.
- I apply advanced machine learning techniques, especially deep learning, to detect cancer cells in images captured by AFM. The objective is to improve the diagnosis and treatment of cancer, enabling an accurate and early detection of malignant cells.
- The developed methodology will be validated through studies covering several types of cancer cells and biological samples. Furthermore, I am focused on interpreting the results of deep learning models, allowing experts to understand the algorithms' decisions and validate the obtained results.

D2Ti Soluções Integradas LTDA

Software Engineer Junior I - Full-Time

São Luís, MA, Brazil

June 2023 – Currently

- I develop and maintain public and private applications for the Piauí Treasury Department (SEFAZ PI), with an emphasis on delivering quality solutions aligned with the customer's needs.
- I work in the configuration of CI/CD pipelines using technologies such as GitLab CI/CD to facilitate frequent and secure deliveries of SIAT-WEB functionalities. By automating the build, testing and deployment processes, we were able to speed up the development cycle and ensure the quality of the delivered software.
- I use Docker to create and maintain standardized project images. These Docker images simplified the deployment and scalability of SIAT-WEB, allowing consistent reproduction of the environment in different stages of development, testing and production.

D2Ti Soluções Integradas LTDA

Software Engineer · Internship

São Luís, MA, Brazil

Dec 2022 – June 2023

- Performed Unit and Integration Tests and maintenance on web applications already developed for the Department of Finance of Piauí (SEFAZ-PI), with the aim of improving the code quality and increasing the efficiency of the solutions.
- I acted as an apprentice for DevOps and Infrastructure of the project, seeking results in a faster development cycle, greater flexibility and a better experience for end users of the NEW SIAT-WEB system from SEFAZ-PI

PROJECTS

NEW SIAT-WEB

Vue.js, Nuxt.js, Vuetify, Typescript, Jest, Docker, AWS

- I actively participate in the recreation and restoration project of SIAT-WEB, an information and tax administration system, for the Piauí Treasury Department, as Junior Software Engineer I.
- I actively participate in the recreation and restoration project of SIAT-WEB, an information and tax administration system, for the Piauí Treasury Department, as Junior Software Engineer I.
- I travel frequently to the SEFAZ-PI headquarters, where I work on maintenance and creation projects for the new SIAT-WEB, collaborating directly with local servers, looking for efficient solutions and contributing to modernize the Treasury Department's processes.

QUALIFICATIONS & INTERESTS

Qualifications: HTML, CSS, Typescript, Vue.js, Nuxt.js, Vuetify, Java, Spring, Docker, AWS, Python, ML

Interests: Expertise in projects that allow me to participate comprehensively in the software development cycle, from design and architecture to implementation, testing and delivery of high quality solutions. My passion for Machine Learning motivates me to explore the application of advanced machine learning techniques in innovative solutions, as I demonstrated in my involvement in the project of detection of cancer cells in Atomic Force Microscopy images through the use of Deep Learning.