David Bezerra Barros

Curitiba - Parana| Cell phone: (63)98402-1557 |**E-mail:**bbarrosdavi@gmail.com
LinkedIn:https://www.linkedin.com/in/davi-bezerra-barros-68149b172/ | Github:https://github.com/Gwafflezz

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SUMMARY: Professional in training with practical experience in IT infrastructure, development of automated solutions and academic projects applying artificial intelligence and data science. Knowledge of Python, neural networks, image processing, natural language processing and data analysis tools.

OBJECTIVE: IT Internship

SKILLS:Systems: Linux, Proxmox, Docker, Git/GitHub. Programming: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras, OpenCV), C, Excel VBA. Machine Learning: Convolutional Neural Networks, NLP (spaCy), GANs, model validation, ETL. Tools: Jupyter Notebook, Excel, LABVIEW, Obsidian. Knowledge of statistics, technical documentation and network infrastructure management.

EXPERIENCE:

Roost - IT Intern   07/2023 - 07/2024

I worked in server administration, switch configuration (Cisco, Aruba, Intelbras) and development of network and CCTV infrastructure projects. I coordinated the maintenance and operation of the Curitiba municipal security system in the Digital Wall project (Curitiba City Hall/ICI), and developed an automated system in Excel to manage the maintenance of its 1,200+ devices. I worked on the technical documentation and operationalization of projects such as the TJ-RJ Wi-Fi network infrastructure, automation of the CAEDU store chain, access control of EMATER and access control of the NEO-Business building.

I used tools like: Proxmox, Linux, Ekahau, Packet Tracer, Excel VBA

Knapp Automation - Electrical Planning Intern   02/2023 - 07/2023

Preparation of mechanical and electrical projects for automation systems of logistics chains in distribution centers.

Vendpago - Electronics Intern   07/2023 - 07/2024

Technical support and maintenance on controller boards for micro-market systems and vending machines.

EDUCATION:

Control and Automation Engineering
UTFPR, 3° year

Languages: English (advanced/C2 proficient - EFSET certification).

ACADEMIC EXPERIENCES:

LAMIA - Machine Learning Laboratory Applied to Industry
UTFPR 02/2022 - current Laboratory for the development of research and solutions in Artificial Intelligence for companies and public entities. Participation in a bootcamp focused on computer vision, Deep Learning, natural language processing (NLP), model validation and application deployment. Link:https://www.lamia-edu.com

Modern Control Systems Research Group

UTFPR / CNPQ 06/2022 - 02/2024 Research involving identification, filtering and control of modern systems

Link:http://dgp.cnpq.br/dgp/espelhogrupo/2127693114322719

Scientific Initiation

UTFPR, LASSIP 02/2022 - 02/2023 Software development in LABVIEW for correction of distortions caused by atmospheric turbulence in astronomical images. Published article: Correction of tip-tilt control in an Adaptive Optics system.

Link:https://www.even3.com.br/anais/seisicite2022/548219-correcao-de-controle-tip-tilt-em-sistema-de-optica-adaptativa/

RELEVANT PROJECTS:

Abdominal Ultrasound Segmentation with U-net and TensorFlow/Keras

UTFPR 12/2024 Development of a semantic segmentation model for abdominal organs in ultrasound images. Architecture based on the original U-Net paper, with a modular pipeline for preprocessing, training with custom loss functions. Implementation of interface via Gradio and detailed documentation of the steps with evaluation and performance metrics.

Link:https://github.com/Gwafflezz/Segmentacao_Semantica_Abdominal