João Bizzo Brandt

brandtjoao7@gmail.com

https://github.com/joaobizzo
www.linkedin.com/in/joao-brandt

ACADEMIC QUALIFICATIONS

Brasília's University Center - UniCEUB   August 2022 - December 2026
Bachelor's Degree in Computer Engineering

PROFESSIONAL EXPERIENCE

June 2023 – Present

Machine Learning Research
Undergraduate Research Assistant | UNICEUB

- Research project aimed at creating an advanced system for interpreting human gestures to improve lock security.
- Uses Machine Learning techniques to optimize the effectiveness and accuracy of this procedure in order to enhance overall security.
- The developing algorithm uses Siamese networks to train hand models and employs metric learning for verification to identify hand and finger movement patterns. The goal is to enhance lock security through gesture recognition for biometric access control systems."

RELATED PROJECTS

August 2022 – September 2023

Exam Reader for Students with Cognitive Difficulties
Exam Reader | Everest International School Brasilia

- Provides essential support to students facing non-normative cognitive challenges, assisting them in understanding the instructions required for assessments.
- At a bilingual educational institution, supports comprehension of instructions in both English and Portuguese.

Capture the Flag Competition

Competitor | BB technology and services and Brasília's University Center   April 2023
- Challenges are related to various aspects of computer security, including penetration testing, reverse engineering, web application security, cryptography, and more.
- 4th place out of 26 competitors.

VOLUNTEERING

Hackathon for Good (Hackathon do Bem) | Tech Event
Volunteer
- Led a team in the integration of a school sustained by altruism and dedicated to underprivileged children into the digital landscape, fostering practical connections for donations and volunteer engagement.
- Established and enhanced the project's online presence, including a dedicated website and social media outreach, to facilitate increased support and awareness.

FURTHER EDUCATION

IBM AI Engineering Specialization
Professional Certificate program encompassing six courses, gaining practical knowledge in Machine Learning and Deep Learning.
- Developed technical skills suitable for launching a career in AI Engineering, including the ability to implement ML algorithms such as Classification, Regression, Clustering, and Dimensional Reduction using SciPy and Scikit-Learn.
- Demonstrated expertise in performing ML on Big Data and deploying ML Algorithms and Pipelines on Apache Spark.
- Exhibited a comprehensive understanding of Deep Learning models, including autoencoders, restricted Boltzmann machines, convolutional networks, recursive neural networks, and recurrent networks.
- Proficiently built deep learning models and neural networks using industry-standard libraries like Keras, PyTorch, and TensorFlow.

ALURA Data Science Specialization
Completed 11 Alura courses in data science, analysis, and visualization.
- Proficient in Python programming, utilizing Pandas, Matplotlib, and Seaborn for effective data handling and visualization.
- Covered topics including exploratory data analysis, regression analysis (including linear regression), statistical testing, and data cleaning.
- Strong understanding of statistical concepts and the ability to apply them to real-world datasets for insights and data-driven decisions.
- Skilled in data science techniques, contributing to data-driven decision-making processes.
- Skills: Data Visualization, Python, Data Analysis, Linear Regression, Applied Machine Learning, Data Analytics, Data Science.

Meta Back-End Developer Professional Certificate (in progress)
Currently pursuing a comprehensive Meta Professional Certificate comprising 9 specialized courses in Back-End Development.
- Full-Stack Development: Proficient in front-end, back-end, and full-stack development. Skilled in creating captivating webpages with HTML, CSS, and UI frameworks.
- Python Programming: Demonstrated mastery in Python syntax, using objects, classes, and methods for efficient coding.
- Version Control: Implemented systems for collaborative coding, navigated repositories, and facilitated seamless code revisions using GitHub.
- Database Planning: Solid understanding of database concepts, executing projects with hands-on experience.
- Django Web Framework: Adept at building robust servers, employing advanced data modeling and security practices.
- API Development: Skilled in developing APIs, applying REST principles for efficient data communication.
- Full-Stack Applications: Experienced in end-to-end application development with Django, proficient in configuring development environments for optimal efficiency.

PROGRAMMING LANGUAGES	LANGUAGES
2 years: Python 1 year: C/C++, SQL, Javascript 6 months: Go, Swift, Java	**English:** Understands Well, Speaks Well, Writes Well, Reads Well (C2) **Spanish:** Understands Well, Speaks Little, Writes Little, Reads Well (B2) **Portuguese:** Native Fluent
Skills	**Personal Projects**
Data Analysis and Machine Learning: PyTorch, Keras, TensorFlow, Linear Regression, Data Analysis, Machine Learning Algorithms, Data Science, Data Visualization, SQL, Microsoft SQL Server, Cloud Computing **Software:** API Implementation: Python, Go, C++, Java proficiency. Web Development: HTML, CSS, basic UX knowledge. Version Control: Git, GitHub expertise. Additional Skills: Microsoft SQL Server (SQL), Data Visualization techniques.	**Computer Vision Project: License Plate Recognition** A system that extracts license plate information from vehicle images using computer vision. It then queries web APIs to retrieve detailed vehicle information. This project showcases my ability to combine image processing and web integration for data retrieval.