

MOISES CERCAS | Bionic Engineer

Fields: Software Engineering, Consulting, Scrum, Usability
Techs: Python, Java, Mongo. SQL, Bash, Git, ScikitLearn, Linux, AWS, SQL, NoSQL
Activities: I love playing chess, Open Source, Fitness, PC Hardware

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Summary

Bionics engineer with experience in the development and application of machine learning models to solve problems in the healthcare sectors. health and technology. Experience in medical image processing, survival analysis and process optimization. Solids Knowledge of Python, R, SQL and data visualization tools. I am looking for a challenging position in an innovative company where I can apply my skills to develop data solutions that generate significant impact

Experience

Java developer - BBVA

2023 - 2024

- Developed tailored backend software solutions in Java using the Spring Framework, with a strong emphasis on relational database management in SQL. Actively contributed to the "Youngsters" project, where I played a key role in integrating the LinkCard account service into the app. Collaborated within a Scrum team, focusing on backend development, from gathering requirements and planning to implementation and deployment.
- I collaborated with clients to understand their needs and translate them into technical solutions.

AI and Optimization Algorithms - UPIITA-IPN

- I have implemented some relevant algorithms oriented to classification and optimization of data and processes such as ACO (Ant Colony Optimization) , PSO (Particle Swarm Optimization), Perceptron, Adaline , Alex Net, Qlearning, CNN, WOA
- Colaboration with a multidisciplinary team on github

Internship/Social Service - CIC (Computer research center IPN ESCOM)

2023 - 2024

- Collaboration on Quantum Neural Network Projects: Assisted in the execution and comparison of LSTM and Quantum LSTM models trained with financial time series, evaluating their effectiveness through cost function analysis.

Titulation Project - CEPROBI Labs IPN

2023-2024

- Development of Computer Vision Systems for Stomatal Monitoring: I implemented an integrated camera system in Python, using OpenCV to capture and analyze images of the size and density of stomata in plants, crucial to evaluate their health during acclimatization.
- I implemented clustering algorithms (OPTICS, Affinity propagation) for the segmentation of objects based on their color and morphology.

Education

Graduated as Digital Systems technician - C.E.C.yT. No. 1 - IPN

2015 - 2018

- **Key Modules:** Math Physics Programming, Electronics

Bionics Engineering, Bachelor´s Degree - UPIITA - IPN

Jan 2019 - Jun 2024

- **Key Modules:** OOP, AI, Fuzzy logic, Pattern Recognition, Artificial Vision, ETL, Signal Processing & data science

Other Skills

- Time Management
- Leadership
- Problem resolution
- Self-taught
- Agile Methologies (Scrum Dev certified)
- Work in team

languages

- Spanish (native)
- English (B2)
- French (A2)