



JOSE CARLOS YANEZ NIETO

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SOFTWARE ENGINEER SPECIALIZED IN MACHINE LEARNING

EXPERIENCE

PROFILE

Software engineer with 15 years of experience specialized in machine learning.

Deep Learning applied to computer vision is the technology I am passionate about and enjoy the most.

EU Citizen.

TECHNOLOGIES

Python, Pytorch
AWS, Java JEE
SQL, Oracle DB
Git, SVN, Maven, Jenkins
Scrum, Kanban, Jira

LANGUAGES

Spanish: Native
Catalan: Native
English: Fluent
German: Fluent
Japanese: JLPTN3

LEAD SOFTWARE ENGINEER

Pregenerate GmbH | Vienna, Austria, 11/2023 - 11/2024

Pregenerate GmbH revolutionizes arthritis treatment with Optimate OA™, an organ-on-a-chip platform that personalizes osteoarthritis care and enhances drug development efficiency.

- Led software development initiatives and redesigned existing architectures to enhance system efficiency and performance.
- Managed AWS cloud infrastructure, implemented cost reduction strategies, and automated deployment processes using GitHub Actions.
- Developed Python scripts for lab robot automation and prepared regulatory documentation for IVDR and ISO certifications.
- Acted as an intermediary between Pregenerate and partner companies to coordinate software-related projects and collaborations.

SENIOR MACHINE LEARNING ENGINEER

Pixofarm GmbH | Vienna, Austria, 03/2023 - 10/2023

Pixofarm is an innovative startup that provides an AI-powered mobile application enabling fruit growers to efficiently estimate yields and optimize harvests.

- Developed computer vision system for automated fruit measurement and counting using deep learning and stereo camera; deployed on NVIDIA Orin NX
- Led image segmentation model improvements increasing tree segmentation accuracy
- Built and deployed high-performance object detection into Android and iOS

MACHINE LEARNING ENGINEER

Money Forward Inc. | Tokyo, Japan, 01/2022 - 03/2023

Money Forward is one of Japan's most crucial fintech companies.

- Designed machine learning systems for document information extraction.
- Developed ML pipelines in AWS.
- Created computer vision models for object detection and OCR using PyTorch.
- Improved the team's Know-How and mentored new members.

CERTIFICATIONS & AWARDS

Product Innovation Award by
Agfa HealthCare (2016)

Oracle Certified Associate, Java
SE 8 Programmer (2015)

Maximum grade in final
degree's project by Universitat
Politècnica de Catalunya (2010)

MACHINE LEARNING ENGINEER

Human Resocia Co. Ltd. | Tokyo, Japan, 07/2018 - 12/2021

I was dispatched to NS Solutions R&D team to investigate AI in the manufacturing industry with a strong focus on computer vision.

- Led PoC projects from data labeling to demonstration using models like EfficientDet, CenterNet, YOLOv3, and Faster R-CNN.
- Applied quantization and pruning techniques to accelerate inference in different architectures such as CPU, GPU, edge devices, and smartphones.
- Developed prototype applications using Python, Swift, Java (Android), and C++.

SOFTWARE ENGINEER

Agfa HealthCare GmbH | Vienna, Austria, 11/2012 - 05/2018

As part of the Resource Planning team at Agfa Healthcare (now Dedalus), I developed key functionalities for the company's widely-used hospital and clinic management software, used by thousands of users across Europe, including:

- Synchronization with Outlook®
- Email and SMS notifications
- Automatic appointment reminders for patients

JUNIOR SOFTWARE ENGINEER

Everis, an NTT DATA Company | Barcelona, Spain, 09/2009 - 10/2012

- Designed and implemented a reporting web portal in PHP.
- Implemented JMS and Web Services as part of a JEE application.

EDUCATION

Computer Science Bachelor Degree by Universitat Politècnica de Catalunya
(Barcelona, Spain, 2005 - 2010)