#### **SUMMARY**

Master's in artificial intelligence research. Specialized in computer vision, reasoning, planning, real-time systems and automation. I have more than 5 years of experience in computer vision heavy projects. I'm experienced in industries as biotech, retail occupancy data collection, ADAS and interior design. I have experience in startups, scale-ups and big consulting firms. I focus on task automation to minimize human time spent on repetitive tasks, enabling them to concentrate on delivering value.

#### WORK EXPERIENCE

- Improve Stylib image search and recommendation system.
- Implementation of CI/CD systems for MLops.
- Generation, improvement and unification of material tags and descriptions.

#### SOFTWARE ENGINEER @ LUMICKS

AI LEAD @ Stylib

- Development of data acquisition system for new generation microscope. Using C++17/20.
- Development of **onnxruntime** based imaging inference libraries. •
- Maintenance, upgrade and creation of **conan** recipes for build system. •
- Imaging acquisition algorithms. Using **OpenCV**, **tensorflow**. ٠
- Prototyping of real-time imaging acquisition systems for high force environments. Using FFmpeq, OpenCV, mbedOS, C++, Python and electronics design.

#### AI LEAD @ Uniphore(acquires Emotion Research Lab)

- Incorporation of Emotion Research Lab computer vision technology to Uniphore's during acquisition phase.
- Deployment of a highly scalable Deep learning platform for video processing • in real-time

## AI DEVELOPER @ Emotion Research Lab

- Responsible of AI technology and development.
- Develop several products up to the acquisition of the company from a • 100M\$ Series C company.
- Deployment of a highly scalable Deep learning platform for video processing • in the cloud using AWS ECS.
- Emotion recognition pipeline implementation in C++ and Tensorflow.
- Development of a **multi-platform** automatic release for Windows, Linux • (CPU, GPU) and letson platform.
- Core library migration from C++98 to C++14.

#### **COMPUTER VISION DEVELOPER @ CISCO/Pi School**

- Research of solutions for the task of real time **depth estimation** from monocular images. GANs and VAEs were the developed proofs of concepts.
- Development done inside a collaboration program between PI School and Cisco.

#### esofabian@gmail.com

## Amsterdam (Netherlands) | Jul 2021 - May 2023

Remote (Netherlands) | Jan 2021 – Jul 2021

Valencia (Spain), Remote | Jan 2019 – Jan 2021

Valencia (Spain) | Sept 2023 - Currently

# LUMŠCKZ



Rome (Italy) | Oct 2018 - Dec 2018









## COMPUTER VISION DEVELOPER @ XESOL Innovation

- Development and fine-tuning of object detection pipelines for embedded devices deployment based • on Deep Learning (Caffe and Tensorflow).
- R&D of pipelines focusing in fast inference (Intel Movidius, TensorRT).
- Development of a system for vehicles and pedestrian counting and tracking • in real-time. (Jetson Board, C++14)
- Development of a semi-automated development and testing suite for deep **XESOL**innovation learning models to decrease the time between experiments.

# JUNIOR CONSULTANT @ Capgemini

Full stack web development. Keywords: Java, Spring, Hibernate, ExtJS and Oracle RDBMS.

# **DEVELOPER** @ Chivesoft(self-employed)

- Android development: Facebook friends guiz, sickness predictor, several speed reflex games.
- Development of booking platform for sport centers. Keywords: Android, JavaScript, Java.
- Embedded device prototyping and development. Keywords: C, C++, CORTEX-M4, ANDROID, 3D Printing, Java.

# **INTERN @ TECHBASE**

- Sales team support from the technical point of view. •
- Technical presentations to potential customers.

## **EDUCATION**

## Oct 2021 - Ago 2023 MSC ARTIFICIAL INTELLIGENCE'S RESEARCH

Specialty in reasoning and planning. Universidad Internacional Menéndez Pelayo (Spain) Master's thesis (A grade): Satellite imaging analysis for invasive algae detection in the surface of lakes.

## Feb 2017 - Mar 2018 SELF-DRIVING CAR NANODEGREE

The program contains the next topics: Computer vision, deep learning, machine learning, sensor fusion, localization, control systems and path planning.

It is focused on developing the necessary understanding and technical skills to create an autonomous vehicle able to drive safely in public roads.

## 2014 SPRING SEMESTER ERASMUS SCHOLARSHIP

Faculty of Electrical Engineering. České vysoké učení technické v Praze. Prague (Czech Republic)

## 2010-2014 DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATION ENGINEERING -

Specialty in embedded system and Real-Time computing. Universitat Politècnica de València. (Spain) Final thesis (A grade): Cross-platform Qt application for the automatic control of liquids tank.

Gdańsk (Poland) | Sept 2014 - Mar 2015





*Vigo (Spain)* | Ago 2017 – Oct 2018



Valencia (Spain) | Jun 2015 - Feb 2016

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Valencia (Spain) | Feb 2016 - Feb 2017