

# Jorge García Pueyo

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## EDUCATION

### UNIVERSIDAD DE ZARAGOZA

#### BS IN COMPUTER SCIENCE

Sep 2017 - Sept 2021

Zaragoza, Spain

GPA: 9.29 / 10

### KTH ROYAL INSTITUTE OF TECHNOLOGY

#### BS IN COMPUTER SCIENCE -

#### ERASMUS+ PROGRAM

Aug 2019 - Jun 2020

Stockholm, Sweden

## SKILLS

### PROGRAMMING

Over 10000 lines:

C++ • Python • Typescript

Familiar:

NumPy • PyTorch • Java • SQL •

Dart/Flutter

### SOFT SKILLS

Motivated • Proactive • Team-player •

Eager to learn • Critical Thinking

### LANGUAGES

Spanish • English • French

## TECHNICAL PROJECTS

### TRANSIENT RENDERING IN MITSUBA 2 (TFG) | GITHUB PROJECT

- Final degree project under the supervision of Adrián Jarabo
- Extended Mitsuba 2, a research-oriented rendering system, to support transient rendering. Light transport rendering in transient state stops assuming the speed of light is infinite which allows observing interesting effects like direct and indirect light separation during its propagation
- It supports polarized and spectral light transport rendering and can be executed in the CPU (scalar and vectorized) and in the GPU.

### STOC (COMPILER) | C++ | GITHUB PROJECT

- Stoc is a compiler for a statically strongly typed programming language with C-like syntax
- The compiler transforms Stoc source code into machine code using the LLVM infrastructure (same technology that it is used in production compilers like Clang, Swift compiler, etc.)

### MELNET - SPEECH GENERATION | PYTHON | GITHUB PROJECT

- Implementation of MelNet, a probabilistic deep-learning model for generating audio using melspectrograms
- Implemented in PyTorch using utilities for training big models in GPU memory limited machines
- Results showed audio generated without being conditioned on text and an analysis of the components with the impact of each one on the quality of the results

## WORK EXPERIENCE

### MAXIMILIANA - SOFTWARE ENGINEER Feb 2021 – now

- Helped grow Maximiliana, a startup that offers an adapted mobile phone for elderly people, from 50 to more than 500 clients by:
- developing a CRM using Nest.js and Angular to reduce the preparation and delivery time of the phone to the customer by 15%
- developing a Flutter application to make videocalls to the adapted mobile phone, reducing the videocall failure rate by 10%

## SCOLARSHIP

### BECA DE COLABORACIÓN 2020/2021 Oct 2020 – Apr 2021

- Analysis and prediction of the impact and popularity of songs in the Spanish, American and English market (Spotify Charts) from an emotional perspective using machine learning.

## VOLUNTEER EXPERIENCE

### **GOOGLE HASHCODE ORGANIZER** Dec 2018 – Feb 2019

- Lead Organizer for the EINA Hub for HashCode by Google competition
- My roles were the coordination of the other volunteers and preparation of the place of the event
- Largest hub in Spain with over 160 participants

### **HACKATHON ORGANIZER** Feb 2018 – Sept 2018

- Lead Organizer for ImagineCode, a 36 hours hackathon that took place in EINA (Universidad de Zaragoza)
- Over 100 participants in the event
- My roles were the coordination of the other volunteers and be the representative to the sponsor companies

### **FOUNDER AND SECRETARY** Jun 2018 – Sept 2019

- Founder and Secretary of CodeLab, a University Association with over 20 members
- CodeLab objectives are the realization of activities, seminars and events related to Computer Science
- Other roles were the preparation of seminars and development of the webpage

## OTHER EDUCATION

Sep 2016-Oct 2016   Official Studies   Exchange in Ontario, Canada  
Sep 2015-Dec 2015   Official Studies   Exchange in Occitanie, France