

CARLA MORRAL I MARTÍN

Software Engineer intern at Microsoft

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EXPERIENCE

Software Engineer Intern

Microsoft

 July 2022 – September 2022  Dublin, Ireland

Software Development Engineer Intern

Amazon

 February 2022 – June 2022  Madrid, Spain

- Designed, implemented, and integrated a video processing QA workflow to automatically validate Amazon books video trailers.
- Tech stack: Python, Typescript, Java and AWS.

Software Development Engineer Intern

Amazon

 June 2021 – September 2021  Madrid, Spain

- Designed and integrated a workflow to generate themes for the Amazon books. Created an optimal color palette to fit the book's theme using quantization algorithms and machine learning. Also built a Video QA system PoC and proved that Video QA can be automated, by which a lot of money could be saved.
- Tech stack: Python, Typescript, Java, AWS, AWS CDK, OpenCV.

Software Engineer Intern

Twilio

 July 2020 – September 2020  Madrid, Spain

- Designed, developed, tested and deployed an end to end internal chatbot application that provides insights and troubleshooting into Twilio's media recordings data. This tool is helping the Twilio TSEs ease their work when dealing with customers' issues.
- Tech stack: Python, Flask, Bash, Docker, and AWS.

Founder and Lead

Developer Student Club Universitat de Barcelona

 August 2020 – June 2021  Universitat de Barcelona

- Organized technical workshops and events for the student community

Computer Vision Research Assistant

University of Barcelona and CVC, HuPBA Group

 July 2019 – March 2020  Barcelona, Spain

- Helped to organize 2020 Looking at People Challenge FG Identity-preserved human detection, a challenge for people to detect people in images and videos.
- Helped in the development of a system that detects people in images and videos based on their body parts.
- Published my first scientific paper at the IEEE International Conference on Automatic Face and Gesture Recognition.
- Tech stack: Python, OpenCV.

PROJECTS

My projects can be found on [Github](#) and some of them featured on my [Personal Website](#).

EVENTS & ACHIEVEMENTS

- Selected to participate at Facebook Women@ Hack 2021.
- Selected to participate at Google's 2021 Inside Look program.
- Invited to participate at Google's 2020 GetAhead program.
- Selected to participate at the 2020 Bloomberg Women in Technology program.
- Holder of six Spanish national medals in track and field on the 600 meters' and 800 meters' races on youth categories.

PUBLICATIONS

- Clapés, A., Jacques-Junior, J., Morral, C., Escalera, S. ChaLearn Iap 2020: Challenge on Identity-preserved Human Detection: Dataset and Results.
- Morral, C. How to Build a WhatsApp Translator with Twilio, Python, Flask and Microsoft Azure

PROFESSIONAL SKILLS

C/C++, Python, Java
Cloud Computing
HTML, CSS, JS, TS, Bash, SQL
React, Vue



STRENGTHS

Thirteen courses completed with honours

- Advanced Algorithms
- Advanced Operating Systems
- Artificial Intelligence
- Computer Graphics
- Computer Networks
- Electronics
- Embedded Systems Programming
- Human-Computer interaction
- Integrated Software Project
- Introduction to Computer Architecture
- Operative Systems
- Software Design
- Statistics

EDUCATION

BSc. in Computer Science

Universitat de Barcelona

 Sept 2017 – Jul 2022

BSc. in Mathematics

Universitat de Barcelona

 Sept 2017 – Jul 2022

MS in Computer Science

Columbia University

 Sept 2022 - Dec 2023

LANGUAGES

Spanish
Catalan
English



CERTIFICATES

- Certificate in Advanced English (C1), May 2017
- TOEFL (102/120), October 2021