

Carla Morral I Martín

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EDUCATION

Columbia University

M.S. in Computer Science

New York, NY

Exp Dec 2023

Universitat de Barcelona

B.S. in Computer Science, GPA: 8.6/10

Barcelona, ES

June 2022

- Relevant Courses: Advanced Algorithms, Artificial Intelligence, Computer Graphics, Computer Networks, Embedded Systems Programming, Operative Systems, Software Design.

Universitat de Barcelona

B.S. in Mathematics, GPA: 7.8/10

Barcelona, ES

June 2022

- Relevant Courses: Arithmetic, Mathematical Models and Dynamic Systems, Projective Geometry, Statistics.

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, HTML/CSS, SQL, Bash, JavaScript, Typescript

Databases: MySQL, Amazon DynamoDB, MongoDB, Firebase

Frameworks: Pytorch, OpenCV, scikit-learn, React, Vue, Flask, Django, .NET

Other Tools: GitHub, Amazon Web Services, Microsoft Azure, Akamai, AWS CDK, Docker, Service Fabric

PROFESSIONAL EXPERIENCE

Microsoft

Software Engineer Intern

Dublin, Ireland

Jul 2022 – Present

- Designed and developed an RPS (requests per second) load-feedback segregated per application system.
- Increased the traffic distribution efficiency per cluster by providing application-specific metrics to the load balancer.
- Presented and discussed the solution with team members before, during and after the development process.
- Gained substantial experience in microservices architectures and on the design, development, and management of large-scale distributed systems.

Amazon

Software Development Engineer Intern

Madrid, Spain

Feb 2022 – Jun 2022

- Designed, implemented and integrated a video processing workflow in native AWS to perform QA checks.
- Reduced the video QA time by 10X by automating checks previously done manually by a team.
- Implemented a system to detect of flash sequences on videos.

Amazon

Software Development Engineer Intern

Madrid, Spain

Jul 2021 – Sept 2021

- Automated the creation of color themes within the pipeline of books video trailers generation.
- Optimized the extraction of a color palette to fit the theme of the book cover using quantization algorithms.
- Proved that automatic QA could be done on videos, substantially reducing the time for validation checks.

Twilio

Software Engineer Intern

Madrid, Spain

Jul 2020 – Sept 2020

- Designed and developed a chatbot application that provides insights and troubleshooting into the recordings data.
- This tool is helping Twilio's Technical Support Engineers ease their work when dealing with customers' issues.

PROJECTS

"Identity-Preserved human detection challenge"

Aug 2020-March 2021

- Constructed research on computer vision techniques to perform human detection.
- Organized the ChaLearn LAP 2020 Challenge on Identity-preserved Human Detection.
- Published a scientific paper at the IEEE International Conference on Automatic Face and Gesture Recognition.

Founder and Lead of the Google Developer Student Club at Universitat de Barcelona

Aug 2020 - Jun 2021

- Founded and leaded a community of more than 30 students in tech.
- Organized technical workshops, talks and events for the student community.