

Carla Morral I Martín

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EDUCATION

Columbia University <i>M.S. in Computer Science – Machine Learning track</i>	New York, NY Dec 2023
Universitat de Barcelona <i>B.S. in Computer Science</i>	Barcelona, Spain June 2022
Universitat de Barcelona <i>B.S. in Mathematics</i>	Barcelona, Spain June 2022

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 <i>Software Engineer</i>	Redmond, United States Jan 2024 – Present
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- Working on the development of new App Home Pages for Word, PowerPoint and Excel. Focused on M365 Copilot integration.

Microsoft <i>Software Engineer Intern</i>	Redmond, United States May 2023 – Aug 2023
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- Implemented a feature to give M365 Apps Admin Center admins the ability to deactivate Cloud Updates.
- Collaborated with engineers, PMs, and designers to implement the feature end-to-end.
- Increased customer trust and adoption by providing admins control over their management of devices at an enterprise level.

Microsoft <i>Software Engineer Intern</i>	Dublin, Ireland Jul 2022 – Sept 2022
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- 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 <i>Software Development Engineer Intern</i>	Madrid, Spain Feb 2022 – Jun 2022
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- 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 <i>Software Development Engineer Intern</i>	Madrid, Spain Jul 2021 – Sept 2021
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- 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 <i>Software Engineer Intern</i>	Madrid, Spain Jul 2020 – Sept 2020
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- 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
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- 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
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- Founded and leaded a community of more than 30 students in tech. Organized technical workshops, talks and events.