Jorge Calvar Seco

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EDUCATION

Universidad Pontificia Comillas (ICAI - ICADE) — Madrid, Spain
BSc Telecommunications Engineering & BSc Business Analytics (402ECTS) — *2018.09-2023.05*

- Fifth-year student. **(Weighted average: 9.12/10)**. Member of the debate club.
- Honours in 63ECTS: Calculus, Algebra, Physics, Fundamentals of Programming, Signals and Systems, Digital Systems II, Financial Mathematics, Microprocessors.

Cornell University — Ithaca, NY
Exchange student in the School of Computer and Electrical Engineering — *2021.08-2022.05*

- Taken courses such as: Machine Learning Fundamentals, System Analysis Behavior and Optimization, Discrete Structures, Embedded Operating Systems, Big Data. **(GPA: 3.9 / Dean's List)**.
- Clubs: Spanish Debate (treasurer), Aerial Robotics.

EXPERIENCE

Nokia (Extended Reality Lab) — Madrid, Spain
Computer Vision Research Intern (50%) — *2022.09-present*

- Writing my Bachelor thesis, which aims to improve algorithms of **Real Time Egocentric Semantic Segmentation of Local Reality**. The tasks include tuning and trying out new network architectures (using Tensorflow), as well as feature engineering of our datasets to obtain the best possible results.

Twilio (Voice Intelligence team) — Madrid, Spain
Software Engineering Intern — *Summer 2022*

- Integrate a new transcriptions provider. Tools: Java, Docker, gRPC, Temporal for workflow management.
- Run performance and accuracy tests to compare against competitors: Google STT and Amazon Transcribe. Tools: Locust for performance, I developed a Python module for accuracy benchmarking.
- Deploy microservices to a Kubernetes (EKS) cluster, and connect to uplinks: RDS, MQ, DocumentDB.

lyntia — Madrid, Spain
Strategy Analyst Intern — *Summer 2019, 2020*

- Develop complex scripts and UX using Python for GIS analysis, including plugins for QGIS.
- Create and manage a vast PostgreSQL database, including geometrical data using the PostGIS extension.
- Create complex algorithms using Python for dataset analysis, including recursive algorithms.

Comillas ICAI — Madrid, Spain
Collaborator at the Department of Electronics, Automation and Communications (25%) — *2020.09-2021.05*

- Develop an end-to-end communications system, including sampling, encoding and modulation, using Python.
- Implemented the Huffman coding algorithm to be able to compress a byte source as much as possible.

PROJECTS

PiNBall — *python, opencv, Raspberry Pi — Cornell University, ECE5725* — *Spring 2022*

- Design and build a pinball machine controlled by the Raspberry Pi. It includes a self-playing mode that uses the PiCamera and a background subtraction algorithm implemeneted with OpenCV to play autonomously.

lamejorautoescuela.com — *php, js, html, css* — *2019-present*

- Create from scratch a software that processes official raw driving school statistics from Spain, uploads them to a PostgreSQL database, aggregates them and shows them in an user-friendly website.
- This information was not freely available elsewhere, attracting thousands of views monthly.

AWARDS

- Excellence Grant from Madrid (**Award given to the best university students**) — *2019, 2020, 2021, 2022*
- Hilton Hospitality Hackathon: Best Data Analysis and Visualization Award — *2021*
- UCM Diploma to the best students in the EVAU (University Access Exam) (**13.7 / 14**) — *2018*
- Spanish Physics Olympiad (Bronze and Silver Medals) — *2017, 2018*

Languages: Spanish (Native), English (C2), German (C1), French (B2)