

# Nicolás Meseguer Iborra

Portfolio: nicolasmeseguer.github.io

Github: github.com/NicolasMeseguer

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## EDUCATION

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- **Universidad de Murcia** Murcia, Spain  
*Master of Science - New Technologies in Computer Science; GPA: 9.24* September 2021 - June 2022  
*Courses:* High Performance Computing, Microarchitecture of the processing cores, Parallel programming standards, Compiler-optimised libraries, High performance system administration
- **Universidad Católica San Antonio de Murcia** Murcia, Spain  
*Bachelor of Science - Computer Engineering; GPA: 9.31* October 2018 - June 2021  
*Courses:* Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases
- **Universidad Católica San Antonio de Murcia** Murcia, Spain  
*Intern Student* October 2019 - June 2020  
*Objectives:* Introduction to Machine Learning (ML) and Deep Learning (DL) using models like MLPs, RNNs and CNNs
- **IES José Planes** Murcia, Spain  
*Higher National Certificate - Web App Developer; GPA: 8.84* October 2016 - June 2018  
*Courses:* Databases, High-level Computer Architecture, Web Language, Client and Server side frameworks (Laravel, Node, Ruby), Usability and UX+UI

## SKILLS SUMMARY

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- **Languages:** Python, C, Java, PHP, JavaScript, SQL, Bash, JAVA
- **Frameworks:** Laravel, Scikit, TensorFlow, Keras
- **Tools:** Docker, GIT, PostgreSQL, MySQL, SQLite
- **Platforms:** Linux, Web Apps, Windows, AWS
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

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- **Universidad Católica San Antonio de Murcia** Murcia, Spain  
*Research Initiation Grant (Part-time)* Feb 2021 - Jul 2021
  - **Objectives:** In charge of developing a hybrid accelerator (CPU+GPU) for a recommendation neural network model (DLRM, WATERoT) using specialized accelerator architectures for inference (SIGMA, MAERI). Aiming at maximizing the model efficiency, waiting times and studying memory accesses (W/R) and total cycles consumed.
- **Plinga GmbH** Berlin, Germany  
*Full-stack Web Developer Internship (Full-time)* Mar 2018 - Sep 2018
  - **Experience acquired:** First-hand experience on front-end and back-end of various PHP and Ruby projects, including Amazon AWS services (EC2 servers, Databases and CDNs)
  - **Developing a customer support app:** In charge of connecting different APIs to create a web application that serves as a support portal for all users among the platform.

## PUBLICATIONS

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- **CPU-PCGCN: Procesamiento Eficiente de Redes Convolucionales de Grafos en Arquitecturas CPU (Deep Learning, Graph Neural Networks):** Work in XXXII Jornadas de Paralelismo (JP). Tech: Python, PyTorch, C++, C, Bash (September '22)
- **Evaluación de un Sistema de Recomendación en un Acelerador Híbrido (Deep Learning, Recommender System):** Work in XXXI Jornadas de Paralelismo (JP). Tech: Python, PyTorch, C++, Bash (September '21)

## HONORS AND AWARDS

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- Extraordinary Award for the Best Academic Record (Bachelor Degree) - Jun, 2022