



Santiago Carbó

sncarbo@outlook.com

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Professional Summary

Employee with extensive knowledge of C/C++, algorithms and data structures. Experience in AAA video game projects. Wide understanding of computer graphics and specifications such as OpenGL and Vulkan.

Skills

Programmed widely in C/C++.

Comprehensive knowledge of the algorithms and data structures.

Extensive knowledge of 2D and 3D trigonometry and spatial decomposition techniques.

Extensive use of OpenGL and Vulkan graphics specifications as well as shader programming.

Experience in animation programming.

In-depth use of debugging tools.

Wide experience using Unreal Engine and CRYENGINE.

Advanced level of English and native level of Spanish.

Very good communication skills, as well as the ability to adapt to the needs of the project.

Capacity to work within tight deadlines.

Deep background in multi-threaded environments.

Strong knowledge of C#.

Professional History

09/2022 - 11/2023

Graphics/Engine Programmer

Horizons Games, Barcelona, Spain

- Coded shaders to develop the specular and metallic workflow, image based lighting, area lights and shadows.
- Programmed the main logics of the animation system, as well as several engine functionalities.

04/2021 - 01/2022

Web Developer

University of Granada

- Utilized JSON to serialize and deserialize information.
- Programmed using HTML, CSS and JavaScript on the frontend and SQL and PHP on the backend.

Education

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- 06/2022 **Double Bachelor's Degree, Computer Engineering And Business Administration, *University of Granada***, Granada
Speciality in Software Engineering.
- Expected in **Master's Degree, Advanced Programming For AAA Video Games, *Polytechnic University of Catalonia***, Barcelona
- 11/2023 Developed a video game using our own game, graphics and physics engine.

Letters Of Recommendation

Written by Professor Carlos Ureña Almagro and Dean Manuel Sánchez Polo.

Carlos Ureña Almagro (curena@ugr.es)
Dpt. Lenguajes y Sistemas Informáticos.
ETS Ingeniería Informática y Telecomunicación.
Universidad de Granada.

To whom it may concern:

I am writing to highly recommend Santiago Carbó García for employment. As his Bachelor thesis advisor, I have had the pleasure of advising and helping him on a project titled "Data Visualization of the Sustainable Development Goals". In this project, Santiago designed and implemented a Web page and JavaScript program for data visualization, by using data about Sustainable Development Objectives, obtained from open-source data repositories. This bachelor thesis is one of the requirements for the joint degree program on Computer Science and Business Administration and Management at University of Granada. Additionally, I have been Santiago's teacher for a course on Computer Graphics at University of Granada.

During the course of his bachelor thesis work and the Computer Graphics course, Santiago demonstrated exceptional technical skills and a strong aptitude for computer science. He showed a keen ability to learn new required concepts quickly, and was able to apply them effectively in his project. He produced a robust program and a very well-written thesis report, and he was also able to effectively communicate his findings and present his work in a clear and organized manner.

In addition to his technical abilities, Santiago also demonstrated strong problem-solving skills and the ability to work independently. He was able to identify and address challenges. Regarding the thesis subject, he learned to use the HTML canvas interface from Javascript to produce production-quality graphics on a web page, and he learned to write code to parse and process data gathered from open source repositories.

I have no doubt that Santiago will be an asset to any organization he joins. He is a hardworking and dedicated individual, and I have every confidence in his ability to succeed in his chosen field.

Sincerely,
Carlos Ureña Almagro.
Dpt. Lenguajes y Sistemas Informáticos.
Universidad de Granada.



UNIVERSIDAD
DE GRANADA

Granada, December 15th 2021

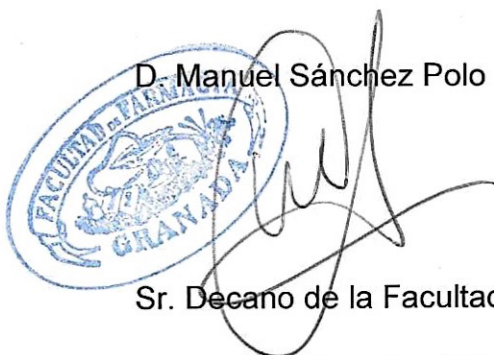
To Whom It May Concern:

SANTIAGO CARBÓ GARCÍA, student of the double degree in Computer Science (specialized in Software Engineering) and Business Administration and Management at the University of Granada, has been selected from among several applicants by the Center for the Promotion of Employment and Internships of the University of Granada *in a public tender* to carry out improvements on the website of the Pharmacy Faculty of the University of Granada.

Subsequently he has been hired to implement programming tasks (including web programming and database management) in order to develop such improvements on the mentioned website.

In view of the good development of his duties as well as the excellent results he has achieved, I fully expect him diligence and efficiency in performing any task that is entrusted to him.

D. Manuel Sánchez Polo



Sr. Decano de la Facultad de Farmacia. Universidad de Granada

Dean of the Faculty of Pharmacy. University of Granada.