

# João Cavacos

## Game Programmer

Hey there! I'm **João Cavacos** and I'm from Portugal. With dedicated experience in game development, my journey began in high school when I first delved into the fascinating world of coding. Since then, I've embarked on a continuous journey of growth and passion into creating captivating games. I'm currently working as a Game Programmer and I've completed my bachelor's degree studying Game Development at IPMAIA!

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## EDUCATION

### Game Development

Instituto Politécnico da Maia, IPMAIA (Bachelor)

09/2019 - 07/2023

Porto, Portugal

## WORK EXPERIENCE

### Gameplay Programmer

AstralShift

05/2023 - Present

Technologies: Unity and C#

Portugal

#### Achievements/Tasks

- Currently working on **Little Goody Two Shoes**;
- Developed new and enhanced several game functionalities;
- Implemented sound effects and music using FMOD to enhance the listening experience;
- Identified and resolved bugs to ensure smooth gameplay and improved user experience;
- Collaborated with the team to modify and adjust animation events in both cutscenes and maps, enhancing the visual storytelling of the game.

### Software Engineer (Internship)

Fabamaq, Sistemas Informáticos S.A.

01/2022 - 06/2022

Technologies: Godot Engine, GDScript and C++

Porto, Portugal

#### Achievements/Tasks

- Active participation in "brainstorming" meetings in order to find the best solutions for the implementation, usability and appearance of casino games;
- Use of the Godot game engine to create visual interfaces and the respective associated algorithm for "Slots" games;
- Worked together with the art team, on a new company prototype developed by creating and adding new innovative functionalities in a new hardware requested by a client;
- Study and continuation of the development of state machines (and/or sub-state machines) that guarantee the base of joint operation for "Bingo" and "Spins" game types (C++).

### Unity Developer

Modal Interactive - Freelance

10/2020 - 06/2021

Technologies: Unity and C#

Porto, Portugal

#### Achievements/Tasks

- After a successful internship I was contacted by the company to work for a client - the town hall of Torres Vedras asked for an interactive mirror where people could dress and see themselves as "Matrafonas". For this job, me and my team used Azure Kinect to detect the body movement and used an asset in the Unity Store to help getting the skeleton right.

## SKILLS

C#

C++

FMOD

JSON

OOP and Game Patterns

Unity Engine

Godot Engine & GDScript

GitHub

Trello/Jira

Autonomous

Problem solving

Great communication skills

Detail-oriented

Teamworker

## PERSONAL PROJECTS

Eternal Journey (2D Roguelike) (02/2023 - Present)

- Solo developer/programmer using C# and Unity Engine.

Dark Memories (3D Survival Horror) (09/2021 - 11/2021)

- Solo developer/programmer using C# and Unity Engine.

PrayBack (2D Topdown Beat-em-up) (10/2021 - 10/2021)

- Worked with a group of 5 for the Invictvs Game Jam 2021 (48h) using agile methodologies, crowning us 2nd place! Programmed the Enemy AI, and the game UI using C# and Unity

The Apprentice (2D Topdown) (11/2020 - 11/2020)

- Solo developer/programmer using C# and Unity Engine.

Knight Typer (2D Sidescroller) (10/2020 - 10/2020)

- Solo developer/programmer using C# and Unity Engine.

## CERTIFICATES

Unity Junior Programmer (04/2022 - 06/2022)

The Unity Junior Programmer Pathway validates skills and competencies to be a proficient junior programmer writing scripts in C#

Unreal Engine 5 C++ Development (04/2023 - 05/2023)

Understanding of the C++ programming language and its implementation within Unreal Engine 5, which enabled me to build highly optimized game systems and features.

## LANGUAGES

Portuguese

Native or Bilingual Proficiency

English

Full Professional Proficiency