

# Andrea Rosati

## Software Developer

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Andrea Rosati in

### Languages

italian mother tongue

English & Spanish fluency

### Programming

♥ GO, C#, Java

C++, Python, Processing

Unreal Engine, Unity

Scala, Arduino, SQL

Matlab, Android, Flutter, L<sup>A</sup>T<sub>E</sub>X

### Communities

V++, Hebocon organizers,  
MUG Roma Tre, Codemotion tech  
communities

### Education

2020–2022

**Master's degree** in Computer Game Development

Università degli Studi di Verona, Italy

Final lab project: Pokol space adventure. A third person action roguelike made with **Unreal Engine** using both **C++** and Blueprint. I worked as both a developer and a game designer.

2013–2017

**Bachelor's degree** in Computer Science (105/110)

Sapienza University of Rome, Italy

Thesis title: Hint Keeper: An Unsolicited Hint System for Serious Games

It consists of a fully designed and developed hint system for **serious games**, focusing on both the analysis of player data and emotions. The system can decide when to provide advice to players who are stuck during a game session.

### Experience selection

Oct 2024 –

Now

**Screevo**

Rome, Italy - Remote

Backend Go, AI Engineer

I work on **Heero**, an AI-powered app helping users improve their spoken **English** through interactive voice practice. My role combines backend development in **Go** and AI engineering, designing and building intelligent systems for interactive learning agents.

I conceived, designed, and implemented the **Journey feature**, delivering personalized paths of 12 unique scenarios where users engage in role-play exercises to practice English in real-life situations.

To orchestrate these interactive agent systems, I leveraged **Temporal.io**, a platform for building reliable, stateful workflows at scale.

Sep 2023 –

Oct 2024

**Miniclip**

Genoa, Italy

Game Technology Developer

As a video game technology developer, I mainly worked on creating, maintaining, and integrating native iOS and Android libraries for Unity projects.

Dic 2021 –

Aug 2023

**Rortos S.R.L.**

Verona, Italy - Remote

Video-game developer, DevOps, Tools programmer

I worked as a video game developer for Rortos, where I mostly worked on the following projects:

- For Wings of Heroes, I contributed to coding the in game-menus UI and handling the technical task of importing graphical assets in the **Unity** project.
- I took on the task of creating a Continuous Integration (CI) system from scratch by using **Gitlab**. This system was specifically designed to work smoothly with Unity, enhancing collaboration and streamlining the development workflow. The implementation of this robust CI system significantly increased productivity and minimized obstacles in the development process.
- I developed a custom content management system based on **Notion** for Real Flight Simulator users to submit game content to our studio. This system streamlined the process of content collection and evaluation, fostering better communication and collaboration between the development team and the player community. Additionally, I seamlessly integrated this Notion-based system with the existing Continuous Integration system mentioned earlier, further enhancing the efficiency and effectiveness of our development workflow.

2019 -2021

**Tree srl**

Rome, Italy

Java Teacher

At Tree Srl, I served as an instructor for three editions of the "Java Backend" course for the tree school. In this role, I was responsible for defining the course curriculum and creating teaching materials.

Oct 2019 – Jun 2020	<b>Sapienza university - Lab2GO robotics</b> Rome, Italy Research fellow. Education, Robotics Lab2GO is a university project aimed at retraining Italian high school laboratories and providing practical lessons to high school students. The project is part of the “Alternanza Scuola Lavoro” program. My main tasks involved assisting students in the laboratory, helping them both learn and develop <b>physics experiments</b> with the MARRtino robot.
Sep 2018 – Dec 2019	<b>Makinarium</b> Rome, Italy Animatronic - Android - Arduino I worked with the Makinarium tech team for the following projects: <ul style="list-style-type: none"> <li>• Renato: An <b>animatronic</b> puppet for the Italian movie “Mollami” produced by Sky and release on Sky Cinema the 24 November 2019. For this project I developed a control system, the M.A.K.S. that allows a puppeteer to control Renato adopting only two physical controllers and an <b>Android app</b> that runs on a tablet. Regarding the hardware on the puppet, we used a custom embedded system built with an Arduino Mega and a Pololu maestro servo board.</li> <li>• Some special effects for the theatrical show “Mary Poppins il musical” at Sistina Theater. More precisely I worked on a <b>Animatronic</b> version of Mary Poppins that was able to “fly” in theaters and on a system aimed to generate a smoke tornado. In addition I supervised the assembling and the usage of these effects at the theater.</li> <li>• Restoration of some Carlo Rambaldi’s works for the exhibition “La meccanica dei mostri. Da Carlo Rambaldi a Makinarium. In particular I had the honor to make an animation for one of the fully animatronic ET from the movie “E.T. the Extra-Terrestrial”.</li> </ul>
Feb 2018 – May 2019	<b>Sapienza university - RFID Lab</b> Rome, Italy Research fellow. Android, Java, C# Aspnet developer i worked on an <b>IOT project</b> about a smartwatch, a web application based on the <b>Spring framework</b> and the maintenance of two <b>Android apps</b> .
2017 – 2020	<b>Codemotion kids</b> Rome, Italy Kids robotics teacher My activity with Codemotion Kids took place during important events such as the 2017 Maker Faire Rome, and involved teaching programming basics to children aged 6 to 14. In these sessions we adapted mBot robots using Scratch.
Feb 2015 – Feb 2016	<b>PTV SISTeMA</b> Rome, Italy Aspnet-C# backend developer The project I worked on called “mobility manager” is based on the development of a web application in <b>asp-net</b> to manage the mobility of employees in huge companies

## Projects selection

2014	<b>Open Basiligotchi</b> Rome, Italy Arduino - Android Open Basiligotchi is an <b>Arduino</b> -based project that turns a plant into a tamagotchi. It was created during a hackathon and was presented at the <b>2014 Maker Faire in Rome</b> , where it received unexpected success and media attention. The Arduino/Android code and electronic schematics were later released under an open source license.
2019	<b>Parrotronic</b> Rome, Italy Android - Arduino - Animatronic Parrotronic is a system that moves the mouth of an <b>animatronic puppet</b> by recording a voice note from an <b>Android app</b> . While I focused on the source code, Matteo De Gregori built an animatronic head inspired by the movie “The Iron Giant”. I posted a video of the working system on my Instagram, and as a result it received many likes and was even appreciated by Mark Whiting, the original designer of the Iron Giant, who re-shared our video on his social profile.

2022	<b>Hack you!</b> Unity - Videogame - Multiplayer - C# - Photon "Hack You" is an arcade-style multiplayer online game where players engage in frenetic battles by attacking their opponent's server while defending their own. Developed in <b>Unity</b> , the game utilizes the <b>Photon framework</b> for seamless online multiplayer functionality.	Rome, Italy
2024	<b>Notion2Pandas</b> Python - Package - Pandas - Notion "Notion2Pandas" is a Python 3 package that extends the capabilities of the excellent notion-sdk-py package, It enables the seamless import of a <b>Notion database</b> into a <b>pandas dataframe</b> and vice versa, requiring just a single line of code.	Genoa, Italy
2021	<b>PixelCastle</b> Unity - Videogame - Android - C# - .Core 3.1 PixelCastle is a <b>2D online multiplayer</b> turn based strategy game, developed as final exam for the Mobile course in the Verona master of computer game development. Like the Fire Emblem games, In PixelCastle a player control an army and the target is to kill the opponent commander. The game is made in <b>Unity</b> and is designed to be played in mobile systems. The server is made in <b>.NetCore</b> , it expose an API interface and use the Entity framework to manage the Database.	Rome, Italy
2014	<b>Jargon</b> Java - Videogame - Multiplayer Jargon is a <b>2D multiplayer videogame</b> for Android and PC developed in <b>Java</b> using the <b>libGDX</b> framework. It was born as a university project for a course and despite it was completed we never released it on Google playstore. In particular I worked on the netcode and the game's physics.	Rome, Italy
2017	<b>Playmobil M***A</b> Processing This game was created during the Global Game Jam 2017. It has a particular control system in which a player moves a frog by physically jumping. The game gained a good success and the Italian version of Motherboard Vice talked about it.	Rome, Italy
2015 – 2025	<b>Botticelli</b> Java Botticelli is an opensource Java framework for rapid development of <b>Telegram</b> chat bots. The project is entirely managed by me.	Rome, Italy
2016	<b>Andromeda</b> Java Andromeda was born during the <b>Intel</b> IOT roadshow, an hackathon hosted by Intel for promoting the <b>Galileo 2 board</b> . It consists of a smart rack designed for bike sharing, connected to the internet. The project was well received, and my team won third prize in the competition.	Rome, Italy
2015 – Now	<b>Hebocon Roma</b> Event Hebocon is a robot wars competition for those technically ungifted. This contest was born in Japan and it was such a worldwide success that even Make magazine talked about it. Together with a friend we brought the hebocon to Rome and we created new competitions like the paint edition which was even hosted in Japan.	Rome, Italy

## Interests

**Professional:** Video game development, embedded systems, IoT, UX, self-hosting, networking, hack-athons, software design, education. **Personal:** Video games, travel, movies, cooking, books, board games, Notion app, Muay Thai, Asian culture, DIY, TV shows, music, digital art, Reddit.