



Marco Maida

Computer scientist



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About me

I am a computer scientist currently pursuing a PhD at Max Planck Institute for Software Systems.

I was born in Turin, Italy, and have been tinkering with computers since I have memory. In 2013, I started working professionally as a programmer. After three years, I decided to start a bachelor degree in Computer Science, while I kept working part-time as game developer. Once I graduated, I moved to Kaiserslautern, Germany, and started a Master+PhD program.

I completed all my master courses, and recently published my first work.

Languages

L'italiano è la mia lingua madre,

I am very fluent in English,

und ich spreche auch etwas Deutsch.

Extras

I like doing new and many things, especially if they involve science, nature, music, sport, food or traveling • I like to risk it, if I believe I am right • Probably sometimes I talk too much • I play guitar and — less successfully — sing.

Skills

I have nine years of professional experience in writing code. I am fluent in writing Python, C#, C++, C, Java, Rust and Coq code. During my seven years in the industry, I learn to work on big code bases in big and small teams.

Having spent two years in research, I learnt to investigate complicated problems and then design, implement, evaluate, document and finally present my solutions.

I am very outgoing and, in my experience, I fit well in teams. Being a relevant part of my career in game development, I am used to collaborate with many different figures (artists, designer) and I developed a sense of aesthetics.

Education

since 2019	Ph.D. student Real-time Systems group	Max Planck Institute for Software Systems
since 2019	Master in Computer Science	Technische Universität Kaiserslautern
2016-2019	Bachelor in Computer Science (110/100 cum laude)	Università degli studi di Torino
2015-2016	Game dev: Software Development (30/30)	Event Horizon School
2008-2013	Diploma in Computer Science (98/100)	ITIS A. Avogadro

Experience

since 2019	Computer Science Researcher. I am currently working in the Real-time System group. My work is focused on the timeliness certifications in safety-critical systems using formal verification (Coq) and on trace-based schedulability analysis on Linux.	Max Planck Institute
2016-2019	Game developer. I worked with Unity3D and Unreal Engine on single player and online multiplayer games shipped on Steam, PS4, XboxOne, Nintendo Switch and Android/iOS. My roles covered creation of gameplays, UIs and architectures.	34BigThings
2016	Freelance Unity3D developer. I worked as a freelance developer, building interactive visualization software and a learning game using Unity3D (C#) and shipping on mobile devices and browsers.	Teoresi, Choralia, Maserati
2013-2016	Software engineer. I worked as a software developer using C++, C/CLI, C# and SQL building software solutions for glass processing factories. In this company I covered many roles, including traveling to customers to sell, install and teach our softwares.	R.O. srl

Other Projects

With 34BigThings

- 2018 Fast Mobile Cycle (FMC) Framework and Toolkit.
I developed an open-source Unity3D framework to quickly develop production-ready mobile games. The framework restricts the game type to infinite-runners, but imposes no restriction on the actual gameplay, and automatically handles data persistence, ads, analytics, and a leveling system. Complementary to this, I developed a Python toolkit to automate the creation and updating of the FMC games. With a small team composed of me, an artist, and a designer, we developed ten production-ready games within a month. (www.github.com/340penThings)
- 2017 Razer Chroma in Unreal Engine 4.
I developed a framework that connects gameplay with Razer's Chroma devices, used in every 34BigThings game. (www.youtube.com/watch?v=AihLBrJBufk&ab_channel=34BigThings)