

# Pedro Bessa

Software Engineer

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## Summary

Software Engineer with 5+ years of professional experience developing cross-platform applications, primarily in game development using Unity and C#. I hold a bachelor's in Game Development and a master's in Computer Engineering, a combo that's given me both creative grounding and strong technical foundations. Contributed to 8 shipped titles in a professional capacity, 5 of which I supported from concept to release. Driven by curiosity and a constant desire to grow, I actively seek out ambitious projects that challenge me, whether that means tackling complex problems or diving into new technologies and unfamiliar tech stacks. Open to global relocation for the right opportunity.

## Experience

<b>Virtual Campus Lda.</b> Programmer / Unity Developer <a href="https://virtual-campus.eu">https://virtual-campus.eu</a>	<b>April 2021 – Present</b> Porto, Portugal
<ul style="list-style-type: none"><li>Developed cross-platform games targeting PC, Mac, Linux, Android, iOS, WebGL, and Meta Quest (VR) in an Agile environment.<ul style="list-style-type: none"><li>Built and maintained core gameplay systems and functionality of games developed as part of larger projects co-funded by the European Union.</li><li>Took ownership of full project lifecycle on select titles, from initial prototype to deployment.</li><li>Collaborated with the art team to import, configure, and integrate 3D models, animations, and other visual assets into production-ready scenes.</li></ul></li><li>Optimised a Unity-based project for the University of Thessaly's Creative Technologies Learning Lab, achieving nearly 2x performance improvement.</li><li>Mentored a junior programming intern, introducing best practices and guiding them through their first steps into game development.</li><li>Provided Unity onboarding and workflow support to a graphic design intern, helping bridge the gap between visual design and implementation.</li></ul>	

<b>GILT - Games, Interaction and Learning Technologies</b> Programmer / Unity Developer <a href="https://gilt.isep.ipp.pt">https://gilt.isep.ipp.pt</a>	<b>May 2017 – April 2021</b> Porto, Portugal
<ul style="list-style-type: none"><li>Developed cross-platform games targeting PC, Mac, Linux, Android, and iOS.<ul style="list-style-type: none"><li>Implemented core gameplay systems and mechanics based on design specs and iteration feedback.</li><li>Translated abstract design concepts into implementable gameplay features and UI/UX interactions.</li></ul></li><li>Maintained and updated legacy projects to ensure compatibility with modern devices and platform compliance (Google Play Store, Apple App Store).</li></ul>	

## Skills

### Professional Experience

C#, Unity, Git, PlasticSCM, Visual Studio, Vuforia, Virtual Reality (VR), Augmented Reality (AR)

### Additional Experience

C, C++, Java, Objective-C, JavaScript, HTML5, CSS, Android Studio, Xcode, Unreal Engine, MonoGame, libGDX, raylib, HLSL, MySQL, phpMyAdmin

## Education

<b>Instituto Superior de Engenharia do Porto</b> Computer Engineering – Graphics Systems And Multimedia <a href="https://isep.ipp.pt">https://isep.ipp.pt</a>	Master's Degree
<b>Instituto Politécnico do Cávado e do Ave</b> Digital Games Development Engineering <a href="https://ipca.pt">https://ipca.pt</a>	Bachelor's Degree

## Publications

<b>Developing Emotional Intelligence with a Game: The League of Emotions Learners Approach</b> Santos, J.; Jesmin, T.; Martis, A.; Maunder, M.; Cruz, S.; Novo, C.; Schiff, H.; Bessa, P.; Costa, R.; Carvalho, C.V.d. <a href="https://doi.org/10.3390/computers10080097">https://doi.org/10.3390/computers10080097</a>	<b>August 2021</b>
<b>Creating Competitive Opponents for Serious Games through Dynamic Difficulty Adjustment</b> Kristan, D.; Bessa, P.; Costa, R.; Vaz de Carvalho, C. <a href="https://doi.org/10.3390/info11030156">https://doi.org/10.3390/info11030156</a>	<b>March 2020</b>
<b>Developing Entrepreneurship Skills with a Serious Game</b> Vaz de Carvalho, C., Costa, R., Bessa, P., Monterrubio, L., Santos, J. <a href="https://doi.org/10.1007/978-3-030-22602-2_26">https://doi.org/10.1007/978-3-030-22602-2_26</a>	<b>June 2019</b>
<b>LearnIt: A Serious Game to Support Study Methods in Engineering Education</b> C. V. de Carvalho, P. Bessa, R. Costa, A. Barata and A. Costa <a href="https://doi.org/10.1109/EDUCON.2019.8725109">https://doi.org/10.1109/EDUCON.2019.8725109</a>	<b>May 2019</b>

