

PEDRO BOECHAT

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SUMMARY OF QUALIFICATIONS

Senior Programmer

- 13 years in the software industry
- 4 years in the academia

Computer Graphics Scientist

- 2 papers published in Siggraph Asia
- Main research topic: procedural generation

Indie Developer

- \$15k prize winner in a nationwide game contest in Brazil
- 10+ open source project using different technologies

WORK EXPERIENCE

Lead Programmer Lab42 Games **Jan 2021 - Present**

- Porting a PC/Console title to Oculus Quest 2.

Senior Programmer Codemasters **Aug 2018 - Jan 2021**

- Worked on the new world editor used in the F1 game series:
 - Decoupled the entity system from the old editor and re-integrated it into the new editor.
 - Increased the robustness of the communication between the editor and the engine.
 - Extended the engine's entity system to support edit-time components.
 - Created a visual editor for the cutscene system scripting language.

Lead Programmer Bongfish **Apr 2017 - Jul 2018**

- Worked on the development of tools to synthesize realistic game scenery from real-world data for the new Microsoft Flight Simulator:
 - Used ML techniques to segment and classify data from aerial images.
 - Built a cloud-based system to run large scale processes.
 - Generated 3D models at run-time using procedural modeling techniques.

Senior Programmer Bongfish **Apr 2016 - Apr 2017**

- Worked on the Frontline game mode for World of Tanks:
 - Helped implementing new game mechanics, such as the respawn system.
 - Refactored important entities, such as the in-battle inventory.

WORK EXPERIENCE

Research Assistant	<u>Graz University of Technology</u>	2014 - 2016
<ul style="list-style-type: none">• Researched GPU programming techniques applied to procedural generation:<ul style="list-style-type: none">– Co-authored 2 publications in Siggraph Asia (once as <u>first author</u> and another as collaborator).– Co-supervised 2 Master's students.• Developed a procedural scene generator for <u>Bongfish</u> under grant program (Innovationscheck 2016).		
Research Assistant	<u>Pontifical Catholic University</u>	2012 - 2014
<ul style="list-style-type: none">• Worked on a virtual training application for oil rig workers:<ul style="list-style-type: none">– Implemented head-tracking and stereoscopy using 3rd party tools– Deployed the application on the <u>largest digital CAVE in Brazil</u>.		
Lead Programmer	<u>Decatron</u>	2012 - 2012
<ul style="list-style-type: none">• Worked on an online learning platform for bus transport professionals.		
Senior Programmer	<u>OWSE</u>	2011 - 2012
<ul style="list-style-type: none">• Worked on an online maritime logistics system in one of the busiest port terminals in Brazil.		
Senior Programmer	<u>Message IT</u>	2009 - 2011
<ul style="list-style-type: none">• Developed the company's application framework and many of the company's internal tools.		
Programmer	<u>Message IT</u>	2007 - 2009
<ul style="list-style-type: none">• Worked on an online billing system for Globosat, the biggest Pay-TV company in Brazil.		
Programmer	<u>Petrobrás Social Security Foundation</u>	2004 - 2006
<ul style="list-style-type: none">• Worked in the migration of company's loan system to the web.		

EDUCATION

Graz, Austria	Graz University of Technology	2014 - 2016
Ph.D. in Computer Graphics (Not completed)		
Rio de Janeiro, Brazil	Pontifical Catholic University	2012 - 2013
M.Sc. in Informatics, Major in Computer Graphics (GPA: 9,1)		
Rio de Janeiro, Brazil	Centro Universitário da Cidade	2008 - 2011
B.Sc. in Computer Science (Merit scholarship)		

AREAS OF EXPERTISE

Procedural generation, Graphics programming, Parallel/distributed programming, Engine programming, C++, C#, Python, Java, Javascript, OpenGL, Direct3D, GLSL, HLSL, CUDA, GPGPU, Software engineering, Test-driven development, People management