Pedro Boechat

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in linkedin

? github

<u>stackoverflow</u>

videos videos

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
- <u>10+ open source project</u> using different technologies

WORK EXPERIENCE

Lead Programmer

Lab42 Games

Jan 2021 - Present

• Porting a PC/Console title to Oculus Quest2.

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 Graz University of Technology 2014 - 2016 • Researched CDII programming techniques applied to proceedural generation.

- Researched GPU programming techniques applied to procedural generation:
 - Co-authored 2 publications in Siggraph Asia (once as first author 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 Pontifical Catholic University 2012 - 2014

- Worked on a virtual training application for oil rig workers:
 - Implemented head-tracking and stereoscopy using 3rd party tools
 - Deployed the application on the largest digital CAVE in Brazil.

Lead Programmer $\underline{\text{Decatron}}$ 2012 - 2012

• Worked on an online learning platform for bus transport professionals.

Senior Programmer \underline{OWSE} 2011 - 2012

• Worked on an online maritime logistics system in one of the busiest port terminals in Brazil.

Senior Programmer $\underline{\text{Message IT}}$ 2009 - 2011

• Developed the company's application framework and many of the company's internal tools.

Programmer $\underline{\text{Message IT}}$ 2007 - 2009

• Worked on an online billing system for Globosat, the biggest Pay-TV company in Brazil.

Programmer Petrobrás Social Security Foundation 2004 - 2006

• 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