

# Jorge Sánchez

Game programmer

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## 🏠 Blog

[jsanchez.net](http://jsanchez.net)

## ✉ Email

[jsanchezsilvera@gmail.com](mailto:jsanchezsilvera@gmail.com)

## 🐙 Github

[jsancheznet](https://github.com/jsancheznet)

## 📞 Phone

+598 97991380

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## Programming projects:

🎮 **Glow** is a top down shooter written in C++ with OpenGL, libSDL, FreeType, glad and stb\_image.

- Forward renderer, Bloom, HDR, Gamma Correction, Resizable framebuffers.
- 2D & 3D text rendering.
- Collision detection & resolution by SAT algorithm.
- Random number generator based on XorShift.
- Debug mode. Move the camera around and debugging data is printed on the screen.

🔧 **jsanchez\_math** is my personal gamedev math library, also written in C and C++.

- 2, 3 and 4 dimensional vector support.
- 4x4 matrix functions and operators.
- Camera and projection functions.
- General utility functions such as remapping a range, converting to radians and more.

🎮 **Pong** is my version of the famous game, written in C++ with libSDL.

- AABB collision detection & resolution.
- bin2header is a tool to convert any file into a C header, to be embedded in executables.

🔧 **Nito (in progress)** is a collection of common shading algorithms, written in C.

- The idea is to draw the same 3d model several times with different shading equations so you can easily see and appreciate their differences.

🏠 **Blog** is my personal website, you will find more projects and tutorials there.

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## Programming languages and software:

- C - Competent, I do most of my projects in C. I also know some C++.
  - Ruby - Beginner level, experience automating processes in linux servers and marketing tools.
  - Javascript - Beginner level, currently learning it to write interactive tutorials on my blog.
  - Unix/Linux - Proficient. I have used and played with different flavors of unix/linux for more than 10 years.
  - Emacs, Git, RenderDoc, Unix/Linux, Windows.
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## Languages:

- Spanish (native).
  - English (intermediate). I can speak and write effectively.
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## Previous employer:

2006-2022 | **Systems administrator/Developer** in Madolsur SA (retail store).

- Inherited, extended and managed existing network infrastructure with many branch offices. Installed and configured mail(Zimbra/iRedMail), database(MySQL) and web servers(LEMP).
- Provided technical support to the company and customers.
- Developed the company's e-commerce website with Wordpress+WooCommerce and integrated it with existing stock and billing software.
- Managed and monitored the company's social media marketing campaigns.
- Integrated Mercado Libre (south american ebay) with the company's existing software, publishing, updating and maintaining more than 1000 products which led to increased sales both online and in-person.