# Rodrigo Cano

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# **Professional Experience**

#### Senior Interaction Engineer (AR) • Magic Leap • 4/2016 - Present

- o Prototyping the entirety of the Magic Leap One's operating system UI/UX in Unity
- o Ensuring proper full-stack performance of the controller for the UX team.
- Developing input algorithms; examples include touchpad cursor movement and 6DoF 3D manipulation of objects
- Wrote a multi-hardware input manager that was used as a base for all prototyping reducing initial overhead, build time, and easing cross project collaboration
- o Managing asset integration ensuring performant scenes, models, VFX, and shaders
- o Setting up performance guidelines and best practices for contractors and developers

#### Senior Developer • iPipeline • 9/2015 - 4/2016

- Set up and documented a development environment for the iPad version of our product (Affirm for Annuities)
- Debugged various platform, web-service, IIS, and business rules issues using C#, and our proprietary XPath like language

#### Lead Programmer (mobile) • SeaShells Education Software • 8/2014 - Present (part time)

- o Developed a multiplatform offline speech recognition plugin and API for Unity
- o Worked with content creators to create tools to better preview and import assets
- o Created reconfigurable event-based gameplay systems driven by speech recognition
- Iterated with artist to create the UI
- Mentored interns, encouraging them to adopt emerging standards in gameplay development

# **Academic Experience**

#### Lead Programmer (Unity) • Electronic Arts (Client) • 8/2013 - 12/2013

- o Implemented naval warfare tactical pathing controls and combat features for iPad
- Created tools for artist to prebake environmental maps used for water
- o Managed programming task distribution, asset integration, and pipeline
- o Created a refraction based wet/splash post process effect optimized for iPad

#### Programmer (Unity) • Building Virtual Worlds (class) • 1/2012 - 5/2012

- o Rapid prototyped five games in one to three weeks in an agile team environment
- o Programmed for the of Kinect, PS Moves, and Wii Remotes

## **Technical Skills**

Coding C#, C/C++, Java, Python, PHP, SQL, DirectX, HLSL, CG, Kinect, Wii Remote

VR/AR LuminOS, Magic Leap SDK, Vive, Stem 6DoF Software Unity3D, UDK, Visual Studio, XCode, Jira

Version Control Git, Mercurial, Perforce, Gerrit

Content Design Photoshop, After Effects, Maya, 3ds Max FumeFX

### **Education**

#### **Carnegie Mellon University**

Masters of Entertainment Technology

**Bloomsburg University** 

B.S. Computer Science • B.S. Mathematics

Pittsburgh, PA Dec. 2013

Bloomsburg, PA May 2011