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## DYLAN DE LOS SANTOS

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### EMPLOYMENT

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<b>Software Engineer, Intern</b>	<b>Warner Brothers Entertainment</b>	<b>Summer 2015</b>
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- Helped smooth the pipeline for integration of content into virtual reality.
- Designed software for virtual reality HMD's, including Oculus Rift and HTC Vive, using Unreal Engine 4.
- Also worked with the usage and setup of said HMD's for proper use in a testing environment.

<b>Software Engineer</b>	<b>Vizilo</b>	<b>Summer 2014</b>
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- Helped the company create an innovative new tech demo in virtual reality.
- Used the Unity game engine to make a 3D virtual racquetball game designed for an omni-directional treadmill and VR HMD's.
- Focused on gameplay using unity physics and ray casting to mimic racquetball set rules.

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**TECHNICAL EXPERIENCE - ONLINE PORFOLIO WITH PICTURES AND DESCRIPTIONS CAN BE FOUND AT [WWW.DYLANJAY.ME](http://WWW.DYLANJAY.ME)**

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#### **Kinect 3D Modeler (2014):**

- 3D Modeling Program that utilizes Candescent NUI, Kinect SDK, and Irrlicht Lime to manipulate a mesh with your hands in 3D space using the Kinect.
- Developed the input code to accurately track gestures that correspond to actions within the modeler.

#### **Scripting Language (2014):**

- Custom interpreted language, built at a hackathon, that supports daisy chained operators, function calls, and variable scoping.
- Implemented the tokenizer and lexical analyzer for the interpreter.

#### **Concurrent 3D Modeler (2015):**

- 3D Modeler which synchronizes changes for a mobile modeling application to allow the client to collaborate with others and to track those changes which allows for version control.
- Worked with MySQL database and data transfer, using PHP, to share vertices among separate systems.

#### **Virtual Pets (2015):**

- Was a programmer on a website based off Neopets where half was a social media and an adventure RPG . While the other half was a web game to take pit your in game avatar against your friends.
- Implemented the pet arena game. 2D tile based one vs one shooter, using Javascript and Phaser.

#### **Jam Cell (2016):**

- Unity proficiciency demo for a VR First Person Puzzle Game
- Implemented a multi-room puzzle game with standard assets including teleportation, grappling, time slowing, and telekinetic game mechanics.

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### ADDITIONAL EXPERIENCE AND AWARDS

- **First Prize, HackUCI (2014).** Won first prize at a hackathon, with the Kinect 3D Modeler, out of 50 teams.

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### Languages and Technologies

- Proficient: C++, Bash, Linux, Emacs.
- Learning: Javascript, Visual Studio, Unity, Unreal Engine 4, Git, Phaser, MySQL.

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### EDUCATION

<b>Riverside, California</b>	<b>University of California Riverside</b>	<b>Fall 2012 - June 2016</b>
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- B.S.E. in Computer Science, June 2016. GPA: 3.0