

## EDUCATION

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<b>Georgia Institute of Technology</b>	<b>Atlanta, GA</b>	<b>August 2016 – Present</b>
<ul style="list-style-type: none"><li>• Pursuing Online M.S. in Computer Science, GPA: 4.00.</li><li>• Coursework: Machine Learning; Knowledge-Based AI; Software Development Process.</li></ul>		

<b>Georgia Institute of Technology</b>	<b>Atlanta, GA</b>	<b>August 2011 – May 2015</b>
<ul style="list-style-type: none"><li>• B.S. in Computer Engineering, GPA: 3.56.</li><li>• Graduated with Highest Honors; received Provost Merit Scholarship every semester.</li><li>• Coursework: Algorithms; Artificial Intelligence; Data Structures; Comp. Architecture; Networking; Security; OO Design.</li></ul>		

## EMPLOYMENT

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<b>Software Engineer</b>	<b>IBM</b>	<b>August 2015 – Present</b>
<ul style="list-style-type: none"><li>• Currently working on integrating Softlayer with Bluemix to create one unified cloud experience.</li><li>• Worked on Cloudbot, a cognitive chat-bot platform built on Github's Hubot framework that integrates services and tools into a development or operations team's workflow in a collaborative chat environment.</li><li>• Developed iOS chat application that allows users to communicate with Cloudbot.</li><li>• Assisted with the integration of noise reduction and data smoothing algorithms into an indoor sensing platform using Spark and created data visualization tools to display live location data streams.</li><li>• Contributed to MFP8, a node.js command-line based application that allows users to interact with a RESTful backend to create and manage hybrid mobile applications and support enterprise server operations.</li></ul>		

<b>Software Engineer Intern</b>	<b>Intel Corporation</b>	<b>May 2014 – August 2014</b>
<ul style="list-style-type: none"><li>• Part of the graphics debugging team within the Visual Parallel Computing group working on software validation.</li><li>• Developed ADFT, a tool that consolidates routines for debugging Android devices into features that can be toggled, modified and stored in a central database.</li><li>• Built a command-line tool that searches for duplicate bugs within the company's high speed database, reducing search time and unnecessary work on similar bugs.</li></ul>		

<b>Software Engineer Intern</b>	<b>Georgia Tech Research Institute</b>	<b>January 2013 – May 2013</b>
<ul style="list-style-type: none"><li>• Part of Georgia Tech's ALQ-213 development team working on software/hardware for military aircrafts.</li><li>• Built a command-line tool for creating random military scenarios on a radar based on the user's input, reducing the time to create such scenario test cases by hours.</li><li>• Developed graph generating tool which takes flight test data and displays which of the aircraft's zones are faulty.</li></ul>		

## PROJECTS

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**github: reicruz**

<b>Raven's Progressive Matrix AI Agent</b>	<b>August 2016 – December 2016</b>
<ul style="list-style-type: none"><li>• Knowledge-Based Artificial Intelligence course project; visual test solving agent built using Python and Pillow.</li><li>• Agent constructed from scratch distinguishes different shapes in images, constructs knowledge representations of their properties, and successfully reasons over a series of choices until finding the correct answer.</li><li>• Connected components in images are extracted using variations of both BFS and DFS algorithms.</li></ul>	

<b>Internet of Things – SHM</b>	<b>August 2014 – May 2015</b>
<ul style="list-style-type: none"><li>• Senior design capstone project; structural health monitoring system using an internet-of-things approach.</li><li>• Mesh network made up of Raspberry Pi gateway host and Arduino nodes communicates with server via Kafka.</li><li>• Data is distributed across Apache Storm system in order to run sci-kit learning algorithms in real-time.</li><li>• Structure's health stored in a MongoDB database and accessed by Django web application.</li></ul>	

<b>Hello Glass</b>	<b>August 2014 – December 2014</b>
<ul style="list-style-type: none"><li>• Four-wheel robot controlled using Google Glass.</li><li>• Glass Android application displays robot's location info and uses accelerometer data to send commands over Bluetooth.</li><li>• Embedded C++ program gives robot access to all connected components (motor, camera, compass, Bluetooth).</li></ul>	

## SKILLS AND INTERESTS

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- **Languages and Technologies**– JavaScript, Node, Java, Python, C, HTML, CSS, SQL, Spark, Kafka
  - **Operating Systems** – Mac OSX, Windows XP/Vista/7/8, Linux Ubuntu/Backtrack5/Kali
  - **Communications** – Fully bilingual in Spanish and English. Presentations to peers, clients and students