

EDUCATION

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

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

EMPLOYMENT

Software Engineer	IBM	August 2015 – Present
<ul style="list-style-type: none">• Currently working on integrating Softlayer with Bluemix to create one unified cloud experience.• 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.• Developed iOS chat application that allows users to communicate with Cloudbot.• 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.• 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.		

Software Engineer Intern	Intel Corporation	May 2014 – August 2014
<ul style="list-style-type: none">• Part of the graphics debugging team within the Visual Parallel Computing group working on software validation.• Developed ADFT, a tool that consolidates routines for debugging Android devices into features that can be toggled, modified and stored in a central database.• 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.		

Software Engineer Intern	Georgia Tech Research Institute	January 2013 – May 2013
<ul style="list-style-type: none">• Part of Georgia Tech's ALQ-213 development team working on software/hardware for military aircrafts.• 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.• Developed graph generating tool which takes flight test data and displays which of the aircraft's zones are faulty.		

PROJECTS

github: reicruz

Raven's Progressive Matrix AI Agent	August 2016 – Present
<ul style="list-style-type: none">• Knowledge-Based Artificial Intelligence course project; visual test solving agent built using Python and Pillow.• 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.• Connected components in images are extracted using variations of both BFS and DFS algorithms.	

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

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

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