

EDUCATION

Atlanta, GA	Georgia Institute of Technology	August 2011 – May 2015
<ul style="list-style-type: none">• B.S. in Computer Engineering, GPA: 3.56.• Graduated with Highest Honors, receiving Dean's List award 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">• Part of IBM Cloud's Mobile First Platform working on data analytics tools for Presence Insights.• Working on integrating noise reduction and data smoothing algorithms with Spark to cleanse Wi-Fi based location data in order to increase positioning accuracy in our existing indoor sensing platform.• Contributed to MFP8, a node.js CLI 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 utility to search 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 creates a clean visualization demonstrating which of the aircraft's zones are faulty.		

PROJECTS

github: reinaldo422

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">• Control a Sparkfun Magician Robot with 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)	

Risk Web Application	May 2013 – August 2013
<ul style="list-style-type: none">• Web implementation of the board game Risk but in a galactic setting.• Server-side includes Java as the driver language for the application and JSP's for routing.• Client-side includes a dynamic interface built using HTML5, CSS and jQuery.	

SKILLS AND INTERESTS

- **Languages and Technologies**– Javascript, node.js, Java, Python, Scala, C, HTML, CSS, SQL, Spark, Kafka
- **Operating Systems** – Linux Ubuntu/Backtrack5/Kali, Windows XP/Vista/7/8, Mac OSX
- **Communications** – Fully bilingual in Spanish and English. Presentations to peers, clients and students
- **Hobbies** – Travelling, snowboarding, sports, reading, programming

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- **Georgia Tech Provost Merit Scholarship** – 1 of 40 recipients
- **HEENAC Merit Scholarship** – 1 of 85 recipients
- **Tau Kappa Epsilon Fraternity, Officer** – Increased on-campus involvement and achieved top 5 organization GPA