# Osvaldo A. Armas

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## Education

### Georgia Institute of Technology

May, 2019

**B.Sc. Computer Science with Minor in Robotics**

- Threads: Devices and Intelligence

**Relevant Courses**: Robotics, Machine Learning, Intro to AI, Robotics and Perception, Natural Language Processing, Deep Learning

## Experience & Research

### Square, ML Software Engineer — Jan 2019 - Present

- Creating Software services powered by deep learning models in order to automate company data collection, inference and infrastructure.
- Using Natural Language Processing state of the art models in order to understand user generated input.

### Amazon, SDE Intern — Aug 2018 - Present

- Used Amazon Sage Maker to perform distributed training on deep neural models for speech recognitions, specifically for Automatic Language Recognition
- Developed real time ML models with their effect on the costumer taken into account and engineered in such ways to minimize latencies on inference time.

### Microsoft, SWE Intern — May 2018 - Aug 2018

- Performance Oriented Congestion Control Prototype
- Developed Kernel implementation using online-learning, and gradient ascend to maximize sending rate of a network TCP/IP connection

### Microsoft

**Explore Intern** — May 2017 - Aug 2017

- Designed spec requirements for command line tools to generate visual representations of captured GPU data
- Implemented command line tools for visualizing video game frame and GPU stack data

### The Home Depot

**SDE Intern** — Jan 2016 - Aug 2016

- Worked in the software as a service team writing automation scripts in python and bash.
- Reduced the time required for developers to deploy custom server builds from days to minutes by automating large parts of approval process

## Research

### Robot Autonomy and Interactive Learning

**Undergrad Research Assistant** — Aug 2017 – May 2019

- Developed a ROS module for robots to navigate to people by taking into human proxemics
- Wrote an undergraduate thesis proposing that the future of human-robot proxemics lies behind deep learnings ability to adapt to new information, and be used to create models adaptable to new cultures and peoples.

## Leadership

### Invention Studio Prototyping Instructor

**Jan 2015 – Nov 2017**

- Served as instructor to other students by providing guidance on machining techniques
- Aided students with conceptualization, design and productions of Capstone and research projects

### HackGT Operations

**Nov 2015 – Nov 2017**

- Ensured sponsor exposure through venue layout based on building requirements and sponsorship level.
- Negotiated with restaurants in order to secure food for over 800 attendees.

## Skills

- **Programming:** Python, Java, C, C++, MatLab
- **Software:** SolidWorks, AutoCAD, Autodesk Inventor, Visual Studio, Mathworks Simulink
- **Frameworks:** ROS, Docker, PyTorch
- **Hardware Applications:** Control Systems, Numerical Methods, Embedded Systems, Microprocessor Programming
- **Instrumentation:** 3D Printing, Laser Cutting, Milling, 5-axis Water Jet, Soldering, basic CNC machining
- **Spoken Languages:** Spanish – Native, English – Fluent, Japanese – Conversational