

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