Miguel Morales

TECHNICAL SKILLS

Languages	Python*, Java*, C, C++, C#, R*
Frameworks	Numpy*, Scikit-Learn*, Scipy*, OpenCV*, Pandas
	TensorFlow*, Keras, BURLAP*, Android SDK
	Matplotlib, ggplop2, glibc, CUDA, OpenAI Gym
Fields	Reinforcement Learning*, Deep Learning*
	Artificial Intelligence*, Statistics
	Optimal Control, Parallel, Bayesian
Tools	git*, Docker*, Emacs*, UNIX tools*, Gazebo
	Vagrant, AWS, KVM*, ROS, VirtualBox
Methodologies	Agile Scrum, OOP, OOD, OOA, TDD, BDD
OSs	Linux* (Arch, RedHat, Debian), Windows, ESXi

Denotes expert level

PROJECTS

Deep Reinforcement Learning | Ping Pong Agent — Udacity
www.github.com/mimoralea/king-pong
- Incorporated TensorFlow and OpenCV to learn the state space from raw pixels.
- Implemented Deep Reinforcement Learning algorithm as suggested by the Google DeepMind team.

Artificial Intelligence for Robotics | PID & Localization — Georgia Tech
www.github.com/mimoralea/kalman-karma
- Influenced team to propose unique project to the Instructors.
- Conjointly implemented PID controller and localization algorithms such as SLAM and Particle Filter.

Convolutional Neural Networks | Traffic Sign Classification — Udacity
www.github.com/mimoralea/traffic-signs
- Programmed image pre-processing pipeline using Computer Vision techniques and OpenCV library.
- Implemented and improved a Deep Convolutional Network from published paper using TensorFlow.

Behavioral Cloning & Transfer Learning | Driving Clone — Udacity
www.github.com/mimoralea/behavioral-cloning
- Leverage existing CNN architecture and weights using Transfer Learning to clone human driving in simulated car.
- Built parallel implementation on multiple GPUs with Keras.

FORMAL EDUCATION

Georgia Institute of Technology
MS in Computer Science – GPA 3.89/4.00
Interactive Intelligence Specialization

Florida Atlantic University
BS in Computer Science – GPA 3.88/4.00
Upsilon Pi Epsilon - Computer Science Honors Society

CERTIFICATES AND ADVANCED COURSES

Machine Learning Nanodegree	Udacity
Self-Driving Car Nanodegree	Udacity
Data Science Specialization	Coursera
Reinforcement Learning and Decision Making	GaTech
Artificial Intelligence for Robotics	GaTech
Artificial Intelligence	GaTech
Machine Learning	GaTech

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LinkedIn, GitHub, StackOverflow, Twitter by **mimoralea**
Website: www.mimoralea.com

WORK EXPERIENCE

Udacity — Remote
Self-Driving Car Nanodegree Mentor — Dec 2016 – Current
- Motivated group of 20 students daily to learn and study Self-Driving Car concepts and techniques.
- Supervised weekly student progress and held them accountable allowing the effort of learning to occur.

Udacity — Remote
Code Reviewer — Jun 2016 – Current
- Provide actionable feedback to students around the world for Self-Driving Car and Machine Learning projects.
- Recommend program design best practices in Python, to improve code readability and maintainability.

Georgia Institute of Technology — Remote
Head Graduate Teaching Assistant — Jan 2016 – Current
- Host weekly open floor online meetings yielding improved student performances.
- Oversee team of graders and provide standards to deliver a seamless experience.

Hewlett Packard Enterprise — Plano, TX
Firmware Engineer — Jun 2015 – Apr 2016
- Initiated peer programming approach and mentored engineers on Java and program design principles.
- Enhanced the internal test development framework coverage and quality.

HomeCEUConnection — Plano, TX
Senior Web Developer — May 2014 – Apr 2015
- Established Agile methodologies, streamlining the completion of tasks.
- Diagnosed site-wide downtime, and took immediate action and complex decisions under pressure to resolve issue.

Cisco Systems — Lawrenceville, GA
Software Engineer — Mar 2013 – Jan 2014
- Co-authored prototypes of the IP Client set top boxes to be showcased at national customer events and news media.
- Collaborated on design meetings to architect solutions.

AT&T — Plano, TX
Member of Technical Staff — Jan 2011 – Mar 2013
- Aligned U-verse Advanced Technical Support Data Collection Team to better assist customers.
- Pioneered C# web dashboard that centralized the 13,000+ servers of the entire U-verse platform.

EXTENDED WORK EXPERIENCE

DataCore	Test and Integration	Florida	2010 – 2011
ArchieMD	Test and Integration	Florida	2010
Freelancer	Web Developer	Florida	2007 – 2009
VideoNET	System Administrator	Venezuela	2003 – 2006