Miguel Morales

Technical Skills

Languages	Python*, Java*, C, C++, C#, R
Frameworks	Numpy*, Scikit-Learn*, Scipy*, OpenCV* TensorFlow*, Keras, BURLAP*, Android SDK Matplotlib, ggplop2, OpenAI Gym, Pandas
Fields	Reinforcement Learning*, Deep Learning* Artificial Intelligence*, Statistics Optimal Control, Parallel, Bayesian
Tools	git*, Docker*, Emacs*, UNIX tools* Vagrant, AWS, KVM*, 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 — May 2017*
MS in Computer Science – GPA 3.89/4.00
Interactive Intelligence Specialization

Florida Atlantic University — Dec 2010
BS in Computer Science – GPA 3.88/4.00
Upsilon Pi Epsilon - Computer Science Honors Society

Certificates And Advanced Courses

Udacity | Robotics Nanodegree	Dec 2017*
Coursera | Data Science Specialization	Nov 2017*
Udacity | Self-Driving Car Nanodegree	Oct 2017*
Udacity | Machine Learning Nanodegree	Jun 2016
GaTech | Artificial Intelligence	May 2016
GaTech | Machine Learning	May 2016
GaTech | Reinforcement Learning and Decision Making	Dec 2015
GaTech | Artificial Intelligence for Robotics	Dec 2014

** Future date*

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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