

Miguel Morales

TECHNICAL SKILLS

Languages	Python*, Java, R, C, Lisp
Frameworks	Scikit-Learn*, Scipy*, Numpy*, Pandas TensorFlow*, BURLAP*, Android SDK, Spring Matplotlib, Ggplot2, Neuralnet, Dplyr, Caret
Fields	Reinforcement Learning*, Deep Learning* Artificial Intelligence*, Statistics
Tools	git*, Docker*, Vagrant, Emacs*, UNIX tools*
Methodologies	Agile Scrum, OOP, OOD, TDD, BDD
OSs	Linux* (Arch, Fedora, Ubuntu), OSX, Windows
Virtualization	AWS, KVM, VirtualBox, ESXi

*Denotes expert level

PROJECTS

Deep Reinforcement Learning Pong | King Pong Udacity
www.github.com/mimoralea/king-pong

- Simulated the game of pong using PyGame.
- Incorporated TensorFlow and OpenCV to learn the state space from raw pixels.
- Implemented Deep Reinforcement Learning algorithm as suggested by the Google Deep Mind team.

Reinforcement Learning Taxi Cab | Q-Cab Udacity
www.github.com/mimoralea/q-cab

- Programmed Q-Learning using Numpy to create an agent that learns to drop off passenger.
- Customized hyper-parameters using Scikit-Learn grid search to have the agent learn in under 100 iterations.

Affirmations Manager App | I Affirm Self initiative
play.google.com/store/apps/details?id=com.forthlife.android.iaffirm

- Hired and unified distributed team of four to work on an Android application to manage affirmations.
- Headed project and team to stay aligned with schedule.
- Implemented part of the application using Android SDK framework and Material Design principles.

Artificial Intelligence for Robotics | Kalman Karma Georgia Tech
www.github.com/mimoralea/kalman-karma

- Influenced team to propose unique project to the Instructors.
- Conjointly implemented line follower and localization algorithms such as SLAM and Particle Filter.

FORMAL EDUCATION

Georgia Institute of Technology
 MS in Computer Science (Machine Learning) – GPA 3.89/4.00

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
Data Science Specialization	Coursera
Reinforcement Learning and Decision Making	GaTech
Machine Learning	GaTech
Artificial Intelligence	GaTech

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 📱 LinkedIn, GitHub, Quora, StackOverflow, Twitter,
 📄 Kaggle, etc, by [mimoralea](#); Blog: www.mimoralea.com

WORK EXPERIENCE

Udacity Remote
 Code Reviewer Jun 2016 – Current

- Provide actionable feedback to students around the world for Reinforcement Learning project submissions.
- 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.
- Redesign assignments and schedules to better motivate students and create an optimal learning environment.
- 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 featured on popular news media.
- Converted framework to automatically test different kinds of hardware without any human intervention.
- Collaborated on design meetings to architect innovative 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