Miguel Morales

TECHNICAL SKILLS

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

Denotes advanced level

PROJECTS

Grokking Deep Reinforcement Learning book | Author — Manning
https://www.manning.com/books/
grokking-deep-reinforcement-learning
- Authored a book on deep reinforcement learning.
- Created all figures and wrote all text to explain challenging concepts in an approachable way.

Deep Reinforcement Learning SOTA algorithms | Engineer — Manning
www.github.com/mimoralea/gdrl
- Implemented reusable code for a wide variety of reinforcement learning algorithms.
- Use PyTorch for implementing deep reinforcement learning methods, such as DQN, DDPG, SAC, PPO, and more.

Deep Reinforcement Learning AC lectures | Teacher — Udacity
https://www.udacity.com/course/
deep-reinforcement-learning-nanodegree--nd893
- Developed the Actor-Critic lectures of the Deep Reinforcement Learning Nanodegree.
- Created all draft animations to explain the concepts in an intuitive way.

FORMAL EDUCATION

Georgia Institute of Technology — May 2017
MS in Computer Science – GPA 3.70/4.00
Interactive Intelligence Specialization

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

Broward College — Dec 2009
AA in Computer Science – GPA 3.66/4.00

CERTIFICATES AND ADVANCED COURSES

Udacity | Deep Learning Foundations Nanodegree	Jan 2018
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

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⌨ | LinkedIn, GitHub, StackOverflow, Twitter by **mimoralea**
⌨ | Website: http://mimoralea.github.io/

WORK EXPERIENCE

Lockheed Martin — Littleton, CO
Research Engineer Staff — Oct 2020 – Current
Software Engineer Staff — Sep 2019 – Oct 2020
Software Engineer Senior — Jun 2017 – Sep 2019
- Architect a prototype of a follow-me perception system for military applications.
- Research and experiment with deep neural network architectures for sensor fusion and explainable AI.
- Support Affordability IRAD projects by evaluating capabilities of cost-effective sensors.
- Develop the perception pipeline of large autonomous trucks.

Georgia Institute of Technology — Remote
Instructional Associate — May 2017 – Current
Head Graduate Teaching Assistant — Jan 2016 – May 2017
- Host weekly open floor Q&A sessions with 300-400 students yielding improved student performances.
- Oversee team of 5-10 graders per semester and provide standards to deliver a seamless experience.
- Answer daily student questions related to reinforcement learning and decision making problems.
- Create new content each semester enhancing the student experience and engaging them in learning.

Udacity — Remote
Content Developer — Jun 2018 – Dec 2018
Code Reviewer — Jun 2016 – Jun 2017
Self-Driving Car Nanodegree Mentor — Dec 2016 – Jun 2017
- Developed content for the Actor-Critic lectures of the Deep Reinforcement Learning Nanodegree.
- Motivated a group of 20 students daily to learn and study self-driving car concepts and techniques.
- Provide actionable feedback to students around the world on self-driving car and machine learning projects.
- Recommend program design best practices in Python to improve code readability and maintainability.

Hewlett Packard Enterprise — Plano, TX
Firmware Engineer — Jun 2015 – Apr 2016
- Initiated peer programming approach and mentored engineers on Java and program design principles.
- Supported the release of next generation server blade management software.
- Improve quality of production software by partnering with development groups of different business areas.

EXTENDED WORK EXPERIENCE

HomeCEUConnection | Senior Web Developer	Texas | 2014 – 2015
Cisco Systems | Software Engineer	Georgia | 2013 – 2014
AT&T | Member of Technical Staff	Texas | 2011 – 2013
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