

TECHNICAL SKILLS

Languages	Python*, Java, C++, C, C#, R
Frameworks	Numpy*, OpenAI Gym*, PyTorch, TensorFlow Keras, Scikit-Learn, Scipy, OpenCV, Matplotlib
Fields	Reinforcement Learning*, Deep Learning Artificial Intelligence, Statistics
Tools	git*, GitLab*, AFSIM*, Docker* Emacs, UNIX tools*, DominoDataLabs
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 ETA 2025
 PhD in Computer Science – GPA -/4.00
 Machine Learning & Intelligent Systems Specialization

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

✉ mimoralea@gmail.com; +1 678 646 2583
 📄 LinkedIn, GitHub, StackOverflow, Twitter by **mimoralea**
 🌐 Website: <http://mimoralea.github.io/>

WORK EXPERIENCE

Lockheed Martin Littleton, CO & Full-Time Remote
 Research Engineer Staff Oct 2020 – Current
 Software Engineer Staff Sep 2019 – Oct 2020
 Software Engineer Senior Jun 2017 – Sep 2019

- Developed a framework for training deep reinforcement learning agents on military scenarios.
- Trained deep reinforcement learning agents on a variety of military scenarios and domains.
- 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

- Teach the Reinforcement Learning and Decision Making graduate course since Spring 2016.
- Teach the Machine Learning undergraduate course in the Summer 2020.
- Oversee team of 10-20 Graduate Teaching Assistants.
- Host weekly open floor Q&A sessions with 300-400 students.

Udacity Remote
 Content Developer Jun 2018 – Dec 2018
 Project Reviewer Jun 2016 – Jun 2017
 Student Mentor Dec 2016 – Jun 2017

- Developed the Actor-Critic lectures for the Deep Reinforcement Learning Nanodegree.
- Provided actionable feedback to students around the world on self-driving car and machine learning projects.
- Recommended 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