GRANT MOE

SOFTWARE ENGINEER

CONTACT

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(310) 462 7967
Los Angeles, CA
Website
LinkedIn
GitHub

EDUCATION

BA - Psychology w/
Information & Computer
Science minor
University of California, Irvine
June 2013
Irvine, CA

Data Science Immersive
Certificate of Completion
General Assembly
August 2021 - November 2021
Remote

SKILLS

Python
Adruino/C++
TensorFlow
Keras
Numpy
Pandas
OpenCV
MySQL
Data Cleaning
Data Visualization
Machine Learning
Neural Networks
Artificial Intelligence
Linux, Git

PROJECTS

Neural-Net Autonomous Racer

- Built and tuned neural network machine learning models to train autonomous racecars to quickly navigate racetracks in OpenAI physics simulator
- Used Jupyter, Python, Numpy, Pandas, PyPlot, Seaborn, Tensorflow/Keras

OpenAI/Donkey Gym Client

- Created custom Python client to record telemetry and transmit commands via the Donkey Car simulator API
- Supports standard CSV, Donkey Car tub, and OpenVSLAM ASL data formats

DIY Robocar

- Developed manual and autonomous control software for NVIDIA Jetson Nano Linux single-board computer communicating with PJRC Teensy 4.0 microcontroller over serial connection
- Used Python, Arduino/C++, Bluetooth LE

WORK EXPERIENCE

Electronics Fabricator and Creative Technologist

Freelance
October 2018 - current / Los Angeles, CA

- Manufactured OpenPath (acquired by Motorola) keyless entry demo units
- Worked as a contractor for VTProDesign on projects including Britney Spears - The Zone 30,000 sq ft installation in LA (featured in The New York Times, CNN, and Forbes)

Software Developer - Volunteer

Cognitive Anteater Robotics Laboratory (CARL), UC Irvine
Summer 2013 / Irvine, CA

- Built robotic control and telemetry applications for an Android robotic platform using Robot Operating System (ROS)
- Implemented RatSLAM, a biologically-inspired simultaneous localization and mapping algorithm based on rodent hippocampi

LEADERSHIP

Board Member

CRASH Space hackerspace
August 2020 - Current / Los Angeles, CA

Team Founder

UC Irvine RoboCup Rescue Robotics Team (RoboEaters)
2012 - 2013 / Irvine, CA