Jordan Lee

Software Engineer

Personal Info

Phone

520-213-7158

E-mail

Leejchris21@gmail.com

GitHub

https://github.com/JLee21

Skills

Python: Numpy, SciPy, Tensorflow/Keras, OpenCV

Amazon Web Services: S3, DynamoDB, Lambda

Node/JS: D3 charts, jQuery, DynamoDB/MongoDB

Mechanical turned Software Engineer with self-driving car experience. Inclined to work in data and image analysis. Eager to develop modern web apps with Amazon Web Services.

Education

12/2016 - 01/2018

Udacity's Self-Driving Car Engineer Nanodegree

- Complete a year-long online course specializing in technologies that power self-driving cars
- Learn modern implementations of computer vision and deep learning for lane-finding and predictive steering techniques
- Create a suite of solutions for vehicle navigation: sensor fusion, localization, controls, and path planning all written in C++
- Work remotely with a team to successfully drive a self-driving Lincoln MKZ around a test track as part of the Capstone project

05/2014

University of Arizona *B.S. Mechanical Engineering*

Coursework

Machine Dynamics, Numerical Methods with MATLAB, Linear Algebra, Control Systems with MATLAB , Mechatronics (PIC Microcontroller), Fuel Cell Design, Thermodynamics, Engineering Statistics, Fluid Mechanics

Experience

05/2017 - present

Software Engineer

DeltaThermal Inc.

- Take a project involving cloud-connected thermal cameras from concept to first purchase order by implementing Amazon Web Services
- Design and write test-driven Python applications that run on embedded systems and Amazon Web Services
- Architect a thermal image processing pipeline within AWS
- Update and maintain front and back end services utilizing Node, C, C++, Yocto

11/2015 - 03/2017

Applications Engineer

Modular Mining Systems Inc.

- Develop a deep understanding of Modular Mining's Machine Guidance software suite
- Travel to mine sites to deploy high precision GPS systems on mining equipment
- Create batch/bash scripts to automate tasks such as telnet connections, file handling, Task Scheduling
- Analyze high-precision GPS data and calibrations with SQL/Python/Excel tools
- Revise and maintain custom C# file importers that are deployed on live production servers

06/2014 - 11/2015

Controls Validation/Test Engineer

Belcan Engineering

- Create, implement, and document Caterpillar's Autonomous Hauling System tests
- Utilize Caterpillar's proprietary software and tools as well as Linux-based OS systems
- Troubleshoot systems consisting of ECMs, I/O modules, and router/radios
- Optimize workflow with Bash scripts and analyze data with MATLAB/Excel