ALBERTO GAONA

Coahuila, México

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I am an engineer graduate offering one year of software engineering experience and one year in programming artificial neural networks, mostly used for computer vision tasks. Seeking to apply cutting-edge deep learning papers into a computer vision engineer position.

SKILLS

Proficient: Python, C++, PyTorch, OpenCV, Matplotlib, Numpy, Git.
Moderate: TensorFlow, Keras, Java, C#, SQL, Pandas, AWS-EC2 instances, Linux.

PROJECTS

Automatic Hair Segmentation   Source code - **10/2018**
- Achieved an IoU score of 0.86 and a pixel accuracy of 0.96 in a hair segmentation task by implementing a U-Net deep learning architecture using Keras.
- Improved the hair segmentation exactness by post-processing the model prediction output with a fully connected CRF and an image matting algorithm using Python.

Dermatologist AI   Source code - **10/2018**
- Developed a deep learning model that distinguish malignant melanoma from two benign skin lesions, nevus, and keratosis, with 79% confidence by adapting a pre-trained Inception v3 model using PyTorch.

Real-Time Facial Landmarks Recognizer   Source code - **01/2018**
- Built a convolutional neural network using Keras that identifies the location of 15 facial key-points with just 0.001 loss.
- Combined the OpenCV framework with the previous CNN model to create a recognition system that takes in an image or live stream containing faces and successfully determines the location of each face and their 15 facial key-points.
- Used the 15 facial key-points to add a sunglass filter to faces in real-time automatically.

EDUCATION

Udacity   On line
Deep Reinforcement Learning   **12/2018 - Present**
Artificial Intelligence and Specializations Nanodegree   **09/2017 - 03/2018**
Deep Learning Nanodegree Foundation   **03/2017 - 08/2017**

Digital Invaders   Saltillo, Coahuila
Innovation and Technological Creativity   **08/2016 – 12/2016**

Autonomous University of Coahuila   Arteaga, Coahuila
Computer Systems Engineer Bachelor's Degree   **08/2012 – 06/2017**

PROFESSIONAL EXPERIENCE

Autonomous University of Coahuila   Saltillo, Coahuila
Software Engineer Intern   **03/2017 - 07/2017**
- Streamline more than 57% the time it takes for each of the 32,000+ university's students to perform administrative procedures by coding a multi-platform mobile application prototype that allows to do them wherever they are.

                                                                             01/2015 - 06/2015
- Used the available documentation to re-engineering and upgrade the intranet for the university's alumni program.
- Reduced approximately 60% of the registration process to the alumni program by developing an Android app that streamlines the complementary administrative procedures benefiting 43 higher education institutions.