Aaron Philip
Software Engineer

Experience

Symantec
Software Development Intern   June 2018-Sep 2018

- used Sciter and C++ to build a new dashboard for Norton Products
- used Python to write automation test scripts
- wrote python libraries for automation testing
- implemented telemetry for recording user actions

Leadership

ACM Artificial Intelligence
Officer   Jan 2018-Now

- ACM is the largest computer science club on campus
- I teach machine learning to 50-100 students a week in 2 tracks: beginner and advanced
- I help organize interest events such as "Demystifying AI" to introduce a wider audience to AI and its effects on society

Projects

Image Segmentation on Faces
Machine Learning   Dec 2017-Jan 2018

- used Keras-Tensorflow to build a fully convolutional network to segment faces
- trained on the LFW Parts Labels dataset for 4 hours and reached 92% accuracy
- wrote an open source CLI script to allow users to train their own FCN

cutoutmyface.com
Web App   Aug 2018-Now

- currently using React, TensorflowJS, and Python Flask to build a web app for making face stickers
- using my FCN model (above) to segment faces
- user uploads an image of their face and the app returns a face sticker

Unmanned Aerial Systems (AIAA-UAS)
Computer Vision   Sep 2017-June 2018

- wrote vision software for an autonomous drone
- placed 24th out of 63 teams in AUVSI SUAS competition
- used Python, Tensorflow, and OpenCV
- trained multiple convolutional neural networks to identify shapes and letters from aerial images
- used K-means clustering to segment images

Contact

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Education

University Of California, Los Angeles
Computer Science B.S.
June 2021
GPA: 3.5

Coursework:
Object-Oriented Programming, Data Structures, Software Engineering, Algorithms, Computer Organization

Research

UCLA Computational Machine Learning Lab
Research Assistant
Oct 2018-Now

- working in Professor Cho-Jui Hsieh's lab
- researching defenses against adversarial attacks on neural networks

Skills

Best
Python · C++ · C · Keras

Better
Tensorflow · Javascript · React · Bash

Basic
Java · Angular · Node.js · PyTorch · Flask