Andrew Liu

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EXPERIENCE

Google Research, New York, NY — *Software Engineer*

Aug 2018 -

Novel methods for understanding inverse graphics and generative models. Cumulated in multiple conference submissions at top-tier conferences

Google, Cambridge, MA — *Software Engineer, Tools and Infrastructure Intern*

May 2017 - Aug 2017

Develop a load profiling suite for Youtube Video Infrastructure. Data from load tests were used to train a statistical model for predicting system behavior.

Google, Mountain View, CA — *Software Engineer Intern*

May 2016 - Aug 2016

Built machine learning pipeline for evaluating the performance of different models on advertising revenues. Pipeline designed to handle billions of predictions per day.

HP, Boise, ID — *Research and Development Intern*

Jun 2014 - Aug 2014

Developed image processing debugging software for printer formatters. Presented a proof-of-concept demonstration to lead engineers at HP.

EDUCATION

University of California, Berkeley — *B.S Electrical Engineering and Computer Science* w/ Higher Honors

Aug 2014 - May 2017, GPA: 3.90

Coursework: Special Topics in Deep Learning, Information Theory, Computational Photography, Machine Learning, Probability Theory and Random Processes, Convex Optimization

University of California, Berkeley — *M.S Electrical Engineering and Computer Science*

Aug 2017 - May 2018, GPA: 4.00

Fifth year Master's Program.

SKILLS

Programming Languages: Python, C++, Java, Matlab, SQL

Tools: Tensorflow, PyTorch

AWARDS/CLUBS

California Alumni Association Leadership Scholar (2014) - A merit-based scholarship given to students who demonstrate innovative, initiative-driven leadership impacting their academic, work, or community environment.

Eta Kappa Nu - Electrical Engineering Computer Science honor society. Provides various services to undergraduate students.

Machine Learning @ Berkeley - Student organization that focuses on bringing together a Machine Learning community through projects and discussion.

PROJECTS

Fighting Fake News: Image Splice Detection via Learned Self-Consistency — *ECCV 2018*

State-of-the-art image splice localization results using a novel unsupervised deep learning approach.

Rendering onto deformable surface using visible ink — *Computational Photography Final Project*

Using a SIFT flow algorithm, I was able to project a synthetic image onto a rapidly deforming surface. Results can be found online.

Generalized appearance features for object tracking — *Special Topics in Deep Learning Final Project*

Trained a Siamese network and an object proposal module to produce a tracking algorithm.

Reddit Link Parsing Bot — *Python, CSS*

Using Reddit's PRAW API, developed a script that scanned Reddit's content for Reddit links posted by users. The script posted a reply with the contents of the link in order to save user's a click. Tested on live server with generally positive responses.