

Jeffrey Yun

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EDUCATION

University of California, Los Angeles (UCLA)

B.S. in Computer Science
B.S. in Mathematics
Graduated June 2019
GPA: 3.88/4.00

Coursera: Specializations in Reinforcement Learning, Deep Learning, Algorithms

Udacity: Self-Driving Car Engineer Nanodegree

Other Coursework / Interests: Machine Learning (ML), Computer Vision (CV), Natural Language Processing (NLP), Quant Finance, Effective Altruism (EA), AI Safety

HONORS

ACM ICPC SoCal Regionals: 2018 (4th place team), 2017

Bloomberg Global CodeCon: 2019 (Finalist, 46th place overall), 2018 (Finalist, 62nd place overall)

California CTF: 2019 (3rd place team), 2018 (3rd place team)

Google Tech Challenge: 2019 (LA, 2nd place team)

Hackathons: 5 wins (8 entries)

UCLA Inventathon: 2017 (3rd place team), 2016 (3rd place team)

Arete Fellow: Summer 2020

CARE Fellow: Summer 2017

Tianxia Fellow: Fall 2020

Rose Hills Foundation Scholar: 2018-2019

Samueli School of Engineering Scholarship: 2018-2019

Tau Beta Pi: Engineering Honor Society Member & Webmaster

Upsilon Pi Epsilon: CS Honor Society Member & Web Chair

SKILLS

Programming Languages

Main: Python, C++

Used: Rust, Scala, Lisp, Prolog

Python Libraries

numpy, pandas, sklearn, matplotlib, Jupyter, TensorFlow, PyTorch

Other

Unix, Git, Django, Flask, Kafka, Kubernetes, SQL, MongoDB, GCP

EXPERIENCE

Citadel

Jul 2019 - Jun 2020

Software Engineer | Research Platform, Term Bank

- Developed monitoring framework for minutely feature datasets; designed roadmap for ML integration; onboarded one engineer to project (Python).
- Deployed monitoring framework, catching live multiple data-related errors
- Designed a workflow management system for research jobs (Python).
- Researched, benchmarked, and developed implementations for internal file compression format, speeding up read speeds for 40GB files by 8x (C++).

Google

Jan 2019 - Mar 2019

Software Engineering Intern | Dynamic Search Ads

- Developed generalized additive model to classify match quality between long-tail Google search queries and advertiser landing pages (Python, C++).
- Analyzed performance of adding word embeddings trained on search queries as features to GAM model, improving recall at desired precision by 38%.

Uber

Jun 2018 - Sep 2018

Software Engineering Intern | Places

- Developed, trained, and productionized WordCNN to classify address-related support tickets, improving recall at 0.5 precision by 28% (TensorFlow).
- Created scripts to convert files to and read data from .tfrecord files (Python).
- Migrated map editing workflow orchestration API from Node.js to Java.

UCLA ACM

Apr 2018 - Jun 2019

ACM ICPC Officer

- Prepared algorithm tutorials and practice contests for weekly meetings.
- Added contest creation options and judging features to competition platform for annual CodeSprint event with 45+ participants (PHP, Ruby, C++).

Ozcan Research Group

Jun 2017 - Jan 2018

Deep Learning Researcher

- Researched convolutional neural network (CNN) architectures to generate high-resolution tissue imagery to facilitate medical diagnosis (TensorFlow).
- Implemented and analyzed efficacy of several architectures, including U-net, spatial transformer modules, and generative adversarial networks (GANs).

PROJECTS

Udacity Self-Driving Car Eng. Nanodegree | *Python* Jun 2020 - Jul 2020

- Developed projects for autonomous vehicle systems, culminating in a team capstone project integrating all systems for a functional self-driving car.
- Autonomously drove around a racetrack using behavioral cloning, by collecting image and steering data, then training a CNN (TensorFlow).
- Identified lane boundaries with OpenCV; performed safe lane changes; etc.

LooongDog | *Python*

Apr 2019

- Developed app to help individuals with visual impairment navigate their surroundings by intelligently describing photographs taken in real time.
- Won "Best Entertainment (Non-Gaming) Hack" at AT&T SHAPE Hackathon.

InsDance | *Python, Node.js, React*

Apr 2018

- Developed app to analyze user dance moves and suggest a dance style.
- Explored Siamese Neural Network to compare differences between human positioning in video frames obtained with OpenPose (TensorFlow).
- Won "Best Educational Hack", "1517's Choice" at Citrus Hacks 2018.

Insightful Mind | *Python, Microsoft Azure*

Mar 2017

- Led team of five in design of mobile application utilizing natural language processing (NLP) and data analysis to track influences on emotional states.
- Tied for 3rd place team at UCLA Inventathon 2017.