

Can Koc

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EDUCATION

University of California, Berkeley

B.S. in Electrical Engineering and Computer Sciences

Expected May 2017

COURSEWORK

Data Structures, Machine Structures, Algorithms, Statistics, Probability, Artificial Intelligence, Machine Learning, Operating Systems, Computer Vision(Graduate), Deep Learning(Graduate), Finance

EXPERIENCE

Apple Inc.

Sunnyvale, CA | 06/06/16 – 08/23/16

Software Engineering Intern in Apple Maps Team

- Worked on an end to end Maps localization application using deep learning with Caffe.
- Created Geomath APIs for feeding images from the Apple Flyover Data into the neural network.
- Created a database of images using location indexing and preprocessed them with oversampling, downsampling.
- Built and trained a regression neural network using the database of flyover images to predict the location and orientation of a user and achieved state of the art accuracies.
- Developed a framework for measuring the strength of future localization models using matplotlib, seaborn, ggplot.

TubeMogul Inc.

Emeryville, CA | 06/04/15 – 08/24/15

Software Engineering Intern in Real Time Bidding Team

- Developed a distributed system that submits campaigns from TubeMogul platform into Facebook platform
- Developed a logging method using Amazon SQS, S3 and MySQL to recover from data submission failures.
- Used caching and threads to improve efficiency of getting campaign data and submitting it to Facebook.

Berkeley AI and Robotics Lab

Berkeley, CA | Current

Undergraduate Researcher

- Worked on automation and simulating leg behaviors of Velociroach (6 legged milli robot).
- Currently writing a paper on Tactile Sensing and environment mapping using Machine Learning.
- Paper will be submitted to IROS 2017 and presented in Bay Area Robotics Symposium Nov. 2016.

PROJECTS

Cave Dodger: Designed the art and developed the engines for a single player android game app inspired from the Flappy bird.

Anime Faces: Image classification project to recognize faces in animes using domain adaption on neural networks.

ATLAS: Landmark recognition using TF-IDF and NMF to associate images with a set of tags (e.g. bridge, tower, etc.) obtained from Clarifai's Image Recognition API and a Linear SVM to classify images. Recognized images of Eiffel Tower, Golden Gate Bridge, Stonehenge, and the Colosseum with 95% accuracy.

Osiris: Android Twilio application that lets users access real time Yelp, Google Maps, weather information without wifi or data.

Smart Power Nap: Android application that detects when a user falls asleep and measures the amount of power nap a user received. This app is available on Google Play app store.

Hando: Arduino web application that lets users log in to the Hando website to unlock their house door without the need for a physical key.

SKILLS

Python, Java, C, Caffe, Numpy, Scipy, Hadoop Map Reduce, Rest API, Android, Git, AWS (EC2, S3, SQS), Node JS