Yu-chieh Lee

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EDUCATION

University of California, Berkeley Class of 2018 (GPA: 3.55)
B.S. in Electrical Engineering and Computer Science (EECS)
Minor in Industrial Engineering and Operation Research (IEOR)

Technical Skills: Java, Python, C, SQL, MATLAB, Swift/Objective-C/Cocoa
Relevant Courses: Algorithm (current), Operating Systems (current), AI, Machine Learning, Machine Structure, Statistical Forecasting, Data Structure, Machine Structure, Linear Algebra

WORK EXPERIENCE

Incoming Software Intern, LinkedIn June 2017-August 2017
Incoming Software Extern, Box January 2017

iOS Mobile Developer, Lookfwd Inc. August 2016-Present
- Working on iOS application using Swift from an Objective-C framework and scaling technology to larger user base.
- Responsible for framework, UI/UX, and release management

Research Assistant, Maharbiz Lab at UC Berkeley August 2016-December 2016
- Developed imaging algorithm to motion track and detect single nanoparticles, differentiating nanoparticles via image processing and FFTs, and quantifying related data for protein detection via Python
- Designed concurrency changes via multithreading to accelerate FPS

Automobile Concepts Intern, Honeywell Aerospace June 2015-August 2015
- Performed signal processing in vibration analysis utilizing Fast Fourier Transforms and performed durability testing on turbocharger with data from testing facilities
- Collaborated with hardware engineers on machinery design projects for the Audi Leman turbocharger

Research Assistant, Arisaka Lab at UCLA June 2013 – August 2013
- Collaborated on multiple-objects, motion-tracking software to quantify C. elegans swimming motion with MATLAB

PROJECTS

iOS: Implementing an iOS social media app which allows people to stack anonymous messages in various locations with a back-end using a Django server in Swift
iOS: Implemented the user authentication and front-end login page of DreamFunded Inc. using KeyChainItemWrapper and AFNetworking library in Swift
Operating System: Implemented an efficient alarm clock, priority scheduler, and multi-level feedback queue scheduler for threading system of OS Pintos in C
Smart Pacman: Created an intelligent and self-operating Pacman in Python utilizing various graph traversals (A*, depth-first, etc.) and machine learning tools such as perceptrons and markov models to maximize utility and efficiency
Neural Network: Used a 2 layered fully connected convolutional NN with mini batch stochastic gradient descent for MNIST digit classification with 88% accuracy on the validation set and 89.1% on the test set in Python

AWARDS

HackerRank Semifinalist
Top 10% among 4400 contestants in international hacking competition for algorithmic problems coded in Java and Python
Intel International Science and Engineering Fair Semifinalist California State Science Fair Qualifier
Created computational fluid dynamics model to quantify the Boeing-787 crash

INTERESTS

Interested in the applications of machine learning and algorithms to mobile and web technologies