

EDUCATION

University of California, Berkeley

Exp. Grad 05/2020

B.S. in Electrical Engineering and Computer Science

3.93 GPA

Eta Kappa Nu (HKN) – IEEE Electrical and Computer Engineering Honor Society

Relevant Subjects: Algorithms, Machine Learning, Probability Theory, Data Structures, Discrete Math, Linear Algebra, Programming Paradigms, Calculus, Signals and Systems, Circuit Design, Statistics, Physics, Numerical Analysis, Control Systems

SKILLS

Proficient: Java, Python, NumPy/SciPy, JavaScript, Android, Swift, iOS, Git, REST, Amazon Web Services, HTML, Node.js

Familiar: C++, OpenCV, Caffe, TensorFlow, MATLAB, MySQL, PostgreSQL, MongoDB, React, Perl, AngularJS, UNIX

EXPERIENCE

Project Manager | Berkeley CodeBase

Jan 2017 - Present

- Student organization helping local high-growth startups bridge technical challenges
- Currently leading team of 8 developers to build chatbot + backend for VisuMenu
- Devised high level software architectural design from project requirements and delegated tasks to team members

Software Engineering Intern | Intuit Inc.

May - Aug 2017

- Contributed to dependency migration from Bower to npm/yarn resulting in 25% faster build times
- Worked on QuickBooks Online infrastructure team to provide plugin encapsulation and deployment framework
- Designed and implemented responsive navigation components for QuickBooks Online in React JS

Data Science Intern | Aupera Technologies Inc.

Jul - Aug 2016

- Developed vehicle detection algorithm for videos using Haar cascade classifier and CNN in OpenCV and Caffe
- Created automated computer vision assisted data extraction tool resulting in 10x faster data acquisition time

Software Engineering Intern | D-Wave Systems Inc.

Aug 2015

- Designed intelligent automated state machine algorithm using temperature sensor for cryogenics testing robot
- Implemented I/O for sensors over RS232 serial communication

PROJECTS

Crowdbotics

2017

- Slack chatbot that uses natural language processing to conduct automated technical interviews
- Trained k-nearest-neighbors classifier and used word2vec to understand user message intent

Nutritional Data Analyzer | (3rd place @ Hack UCSC)

2017

- Performed syntax analysis on data scraped from USDA food database to calculate nutritional content of recipes
- Built chrome extension to understand structure of recipe webpages to assist users in making healthier choices

AI for Snake Game

2016

- Devised reinforcement learning algorithm inspired by Kenneth Stanley's paper on "NeuroEvolution of Augmenting Topologies"

Smartphone Camera Ruler | (Winner @ Fishackathon Vancouver)

2016

- First Android app able to measure length of objects using a single photo – no physical backdrop or multiple angles needed!
- Developed innovative algorithm to quickly and accurately calculate object length using camera focal distance metadata