

Objective

To land a role working on intelligent software that performs inference at scale or solves some narrow problem for an organization.

Skills

Javascript, Python, Go, SQL, Postgres, sqlite, Java, Node.js, Amazon Web Services, Google Cloud Platform, VIM, Linux Administration, UNIX tools (pipe, wget, curl, find, etc.), Keras, pivot tables, ML Engine, Sagemaker, EC2, S3, Google Cloud SQL, scikit-learn, pandas, numpy, JIRA, Kanban

Experience

February 2016 - February 2018

Capsule Corp, New York, NY - *Fullstack Software Engineer* - <http://capsulecares.com/>

- Early Engineer working on APIs in Golang, Python/Django, Ansible, Django REST Framework, TDD and Amazon Web Services.
- Rewrote legacy payments processing system interfacing with Stripe API increasing successful charge rate by 20% and avoiding wasted work on customers without funds.
- Generated conversion funnel and month over month reports for stakeholders using SQL (window functions) and Metabase.

Projects

June 2018 - August 2018

Kaggle Freesound Competition

- Developed classification algorithm for sounds out of 41 categories
- Used weighted ensemble with decision tree, SVM and Deep Convolutional Neural Network
- Extracted features like spectrogram and learned and embedding space for audio

June 2018 - August 2018

Plant Disease Classification

- Built model for identifying sick plants from images
- Model was designed and trained using sagemaker
- Scrapped image data from reddit and google

March 2018 - July 2018

Cell Identification in divergent images

- Built Deep Convolutional model using keras and U-net architecture
- Experimented with padded and unpadded convolutions

January 2013 - August 2013

StealthHealth, Pose Estimation from Radar

- Developed convolutional model for classifying a person's position on a bed by radar sensor
- Model was written using Python and scipy on Amazon Web Services
- Worked with a Doctor of Electrical Engineering at UC Berkeley

June 2011 - June 2012

Machine Learning for Student Modeling

- Developed a predictive model of students from a set of answers on the Massachusetts middle school standardized test
- Model was a decision tree built with WEKA

Education

2017 - 2018

Deep Learning book, <http://deeplearning.org/>

Studied the deep learning textbook bookclub style as part of the Math and Algorithms meetup group. Led by Prof. Kelleher, chief data scientist at Barclay's bank, we met weekly over the year to review the textbook and write keras implementations.

2008 - 2012

Worcester Polytechnic Institute, Worcester, MA – *Bachelor's in Computer Science*

Completed coursework in Computer Networks, Databases, Web Applications, Calculus, Algorithms, Linear Algebra, Statistics, Artificial Intelligence, Data Mining, Software Development, Object Oriented Design, Functional Programming and Operating Systems.

Open Source Projects

- [React Native Contacts](#) - the most popular module for loading phone contacts in React. Written in Javascript, Objective-C and Java.
- [karp-rabin-search NPM module](#) - a Javascript module implementing fingerprint search algorithm.

Groups

- Founder at [KaggleNYC](#)

Links

- [Personal Blog](#)
- [Github](#)
- [Stackoverflow](#)