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JERRY YU

Education

Coursework

10-417 Deep Learning
10-403 Deep Reinforcement Learning
11-775 Large Scale Multimedia Analysis
10-601 Machine Learning (Masters)
11-411 Natural Language Processing (TA)
15-440 Distributed Systems
15-418 Parallel Computer Architecture and Programming
18-349 Embedded Systems
18-213 Computer Systems

Skills

PROGRAMMING LANGUAGES

Python
C/C++
Ruby on Rails
PHP / Hack
Go
Javascript

WEB DEVELOPMENT

Node.js
React
Redux
Typescript
Sass
GraphQL

MACHINE LEARNING

Tensorflow
Keras
NumPy
OpenCV

DATABASES

SQL
Elasticsearch
MongoDB

CLOUD COMPUTING

Azure
Google Cloud
AWS

VERSION CONTROL / OTHER

Git
Mercurial
CUDA
OpenMP
Kinect

Carnegie Mellon University

BS Electrical and Computer Engineering Aug 2016 - May 2020

GPA: 3.85 Dean's List, College of Engineering: Spring 2017, Fall 2017, Spring 2018, Fall 2018, Fall 2019, Spring 2020

11-411/611 Natural Language Processing Teaching Assistant: Fall 2019, Spring 2020

Developed assignments, wrote exam questions, hosted office hours, helped students with QA project, rebuilt site

Employment

Facebook

Software Engineering Intern - Product Growth Platform Ranking

Menlo Park, CA
May 2019 - Aug. 2019

- Built a performance tracking system for notification ranking ML, enabling team to run A/B tests on costs, rate limiting, monitoring
- Worked on Quick Promotion ML and DQN scheduling frequency training data pipelines
- Implemented MTML models for team's ML training infrastructure
- Developed SLA for launch of Notification Auction service

AngelList Talent

Product Engineering Intern - Company Engagement

New York City, NY
Jan. 2019 - May 2019

- Built new company profiles with the Company Engagement Team
- Launched a weekly activity email to send to all companies on the platform
- Built dashboards and provided data pulls to design, sales, and ops teams
- Used Ruby on Rails, MySQL, React, Typescript, Sass, next.js, Apollo GraphQL

Facebook

Software Engineering Intern - Graph API

Menlo Park, CA
May 2018 - Aug. 2018

- Built a system to take snapshots of the Graph API in Hack/PHP and help team track API endpoints
- Generated changelogs with snapshots for documentation and created an editing tool in React
- Developed an API breaking change detector continuous integration tool

InvenTower

Co-Founder

Pittsburgh, PA
Oct. 2017 - May 2018

- Built a voice and text physical search engine that locates items using LED lighting
- Deployed in 3 locations (2 makerspaces and 1 lab) with over 3000 searches
- Second Place at CMU McGinnis Venture Competition, Rough Draft Ventures award

GoFind.AI

Deep Learning / Software Engineering Intern - Backend

Berkeley, CA
May 2017 - Oct. 2017

- Built ML visual search and recommendation of fashion products with Tensorflow and OpenCV
- Scaled and optimized a REST API with serverless and caching
- Transitioned software stack from Azure to AWS, MongoDB to Elasticsearch
- Created Facebook Messenger and WeChat chatbots using NLP from LUIS
- Developed a Twitter bot to automatically respond to fashion posts with similar products

Select Projects

Food Video Localization

Mar. 2020 - May 2020

- Multimodal ML pipeline that identifies locations and foods featured in food videos
- Includes scene detection networks, OCR, ASR, NER with LSTM and CNNs

Cookiebot

Jan. 2020 - May 2020

- Home robot powered by gesture recognition, tracking, and mapping
- Functions include driving to a pointed location in the room, driving to the user, driving to home, teleop

Caltra

May 2019 - Current

- Project management website helping over 3,500 people work on their personal goals

TL;DW (Too Long Didn't Watch), HackMIT GIPHY API award

Sept. 2018

- Summarizes videos into relevant gifs
- Transcribes video, extracts key words with nltk NLP to query for gifs