Danny Yang

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EDUCATION

Cornell University – Bachelor of Science in Computer Science – May 2020
GPA: 3.66, John McMullen Dean's Scholar, Dean's List Fa16/Sp17/Fa17
Advanced Coursework: Functional Programming (CS 3110) - Machine Learning w/Big Messy Data (ORIE 4741) - Algorithms Design/Analysis (CS 4820) - Artificial Intelligence (CS 4700) - Data Visualization (CS 3300)

WORK EXPERIENCE

Facebook – Software Engineering Intern – *May - Aug. 2018* (Hack/PHP, OCaml, React)
- Authored automation framework for Rodeo (on-call tool) to increase efficiency of internal on-call rotations
- Built intuitive GUI to allow configuration of features such as automatic chart generation and custom attachments
- Used OCaml and Flow to develop patch for type-safety issues in PHP files generated from server-callable Javascript

StartupTree – Backend Developer – *Jan. - Aug. 2017* (Python, Django)
- Implemented robust endpoints across new mobile service, from authentication to content, using Django REST Framework, and optimized an existing endpoint to reduce response time by 66%
- Created scripts for automated notifications, integrated third-party service to deliver messages and notifications

Cornell University – Teaching Assistant – *Jan. 2018 - Present*
- Provided direct mentorship and feedback for group projects, held office hours, graded assignments and projects
- *Spring 2018* - Teaching Assistant for CS 3300 (Data Visualization - D3.js, Javascript, HTML/CSS)
- *Fall 2018* - Course Consultant for CS 3110 (Functional Programming - OCaml)

PROJECTS

OCaMOSS – *Mar. - May 2018* (OCaml)
- Source code plagiarism detection software that detects pairwise instances of plagiarism, inspired by MOSS
- Features support for 4 languages, customizable detection thresholds, and a text-based terminal interface
- Attained F1 score of 0.812 with 0 instances of false-positives in test corpus of Java source code

Social Tribes – Cornell Data Science – *Jan. - May 2018* (D3.js, Javascript, Python)
- Unsupervised clustering and visualization of political journalists on Twitter based on shared audiences
- Implemented agglomerative clustering algorithm, created interactive demo showing step-by-step clustering process
- Created several dynamic, interactive visualizations for exploring the underlying structure of the dataset

Minibot Platform – Cornell Cup Robotics – *Jan. - Dec. 2017* (Java, Javascript, React, Python)
- Software platform for Minibot, an educational robotics platform developed by Cornell Cup
- Helped implement physics backend for simulating bots and obstacles, created system to save/load preset scenarios
- Rewrote front end interface for simulator using React.js and improved interface by removing lag spikes and creating a zooming/panning system for Pixi.js display

SKILLS

Languages:
Python - OCaml - Hack/PHP - Javascript - Java - HTML/CSS
Tools/Frameworks:
Django - D3.js - Git/Github - Mercurial - SQL - React

HACKATHONS

HackNY Fall 2016 – First Place
HackDavis 2017 – Honorable Mention
Cornell Animal Health Hackathon – Finalist
Big Red//Hacks Organizing Committee