Lizzi Yin

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Education

Carnegie Mellon University
Computer Science Major
Math Minor
Junior
Sep 2015 - Exp. May 2019
Cumulative GPA 3.82/4.0
Dean's List (All Semesters)

Coursework

Algorithms Design & Analysis
Distributed Systems
Machine Learning (Phd level)
Functional Programming

Skills

Programming
Experienced
Java Python C SML
Proficient
SQL HTML JavaScript CSS
PyTorch Tensorflow Django
Familiar
MATLAB R LaTex Makefile
x86 Assembly
Applications
Docker Vim Git AFS

Involvements

TartanHacks
HackED (2nd Place)
CMU Quantathon
Mathematical Competition for Modeling
CMU Hackathon
Putnam Competition

Work Experience

Machine Learning Algorithm Development Intern
Unisound | May 2017 – Aug 2017 | Shanghai, China
- Developed a speech separation product through deep learning training in Tensorflow for speaker independent multi-talker speech separation. (https://github.com/Unisound/SpeechSeparation)

- Experimented and analyzed relevant machine learning algorithms (GAN Image Generation, Image Effect Transfer, SampleRNN, Guitar Sound Auto Gereration...) with Tensorflow and Pytorch on GPUs in Docker platform.

Education Strategy Intern
Expii, Inc. | Sep 2017 – Dec 2017 | Pitssburgh, PA
- Headed a team of four in creating innovative problems for math courses on expii.com under supervision of Professor Po-shen Loh.
- Explored and designed various technologies to make teaching and learning more efficient and effective.

Operation and Data Analyst Intern
Wallstreetcn.com | May 2016 – Aug 2016 | Shanghai, China
- Installed tools to monitor and gather user data from website, phone app, and analyzed data to plan and present advertising budget investment accordingly.

- Participated in businuess development to seek and negotiate chances of cooperation with related companies.

Teaching Assistant
15-210 Parallel and Sequential Data Structures and Algorithms
15-150 Introduction to Functional Programming
- Helped in develoing and testing a secure autograding infrastructure to save 500+ man hours/year.
- Collaborated with other course staff to teach lab sections, created and reviewed assignments including homework and labs, conducted office hours, administered exams and answered students' questions.

Projects

Listening Practice Everywhere
- A listening prcatice tool that uses google speech recognition API to help non-native English speakers practice listening
https://devpost.com/software/listening-practice-everywhere

Messenger Bot Therapist
- A chat bot on messenger that talks to people, detects their moods via Microsoft cognitive services API, and helps people improve their feelings
https://github.com/haohanshi/TartanHacks2018