Max Tell

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Education

Massachusetts Institute of Technology — **Cambridge, MA**
Candidate for Masters of Engineering in Computer Science — August 2021 - June 2022

Massachusetts Institute of Technology — **Cambridge, MA**
Candidate for Bachelor of Science in Computer Science — August 2017 - June 2021
GPA: 4.6/5.0

Relevant Coursework: Machine Learning • Statistics • Computer Vision • Algorithms • Probability • Macroeconomics • Microeconomics • Software Engineering • Computer Systems Engineering • Discrete Mathematics • Linear Algebra

Experience and Research

Facebook AI ‖ *Software Engineer Intern* — **Menlo Park, CA**
- Applying representation learning algorithms such as StarSpace and metapath2vec on large-scale heterogeneous graphs — May 2020 - Present
- Designing embedding learning models that will drive future production systems

SESCO Enterprises ‖ *Data Science Extern* — **Greensburg, PA**
- Built a subclass of PyTorch Tensors enabling the naming of Tensor axes and indices, as well as advanced indexing on these names — January - February 2020
- Developed feature-wise attention mechanism to handle multiple keys and a single query

UnifyID ‖ *Machine Learning Research Intern* — **Redwood City, CA**
- Implemented state-of-the-art algorithms to extract signals from mobile phone accelerometer data — June - August 2019
- Designed internal Python package that improved the extraction pipeline performance by 23%

McGovern Institute, Poggio Lab ‖ *Machine Learning Researcher* — **Cambridge, MA**
- Developed convolutional neural network architectures that exhibit scale invarience in object classification tasks — January - May 2019

Projects

Pokerbots Competition — **Cambridge, MA**
- Created agent to play a variant of No Limit Texas Hold'em — January 2019
- Implemented machine learning models to predict opponent strategy, as well as a variant of Monte Carlo CFR to generate approximately game-theory optimal strategy profiles in an abstracted game tree

HQ Trivia Bot — **Cambridge, MA**
- Created program to play the popular trivia game, HQ Trivia — January 2018
- Utilized Tesseract OCR and NLTK toolkits to generate relevant keywords from questions and designed custom answer ranking algorithm to generate best responses

Activities

Gordon-MIT Engineering Leadership Program — **Cambridge, MA**
- Participated in selective leader development program focused on cultivating the leadership skills that drive successful engineering teams in industry — September 2019 - May 2020

Delta Tau Delta Fraternity — **Boston, MA**
- Social Chairman, Alumni Relations Chairman — September 2018 - Present

Rowing — **Cambridge, MA**
- D1 Rower at MIT, High School Scholastic National Champion — September 2013 - January 2018

Programming Skills

Languages: Python, Java, R, C++, Javascript
Technologies: Pytorch, Caffe2, Tensorflow, Keras, Numpy, Pandas, Scikit-learn, AWS, Docker, Arduino, Git, Convnetjs, Terminal, Linux, Windows, MacOS