

Nick Locascio

Education

Bachelors of Science - Computer Science June 2016
Massachusetts Institute of Technology

Masters of Engineering - Computer Science Expected June 2017
Massachusetts Institute of Technology

Relevant Coursework

- Computer Vision, Deep Learning for NLP, Machine Learning, Artificial Intelligence
- Computational Image Processing, Computational Cognitive Science

Research

Neural Generation of Regular Expressions from Natural Language with Minimal Domain Knowledge

- *First Author, EMNLP 2016*

- Deep Attention-based LSTM network for generating Regular Expressions given natural language descriptions of the user's intent.
- Created largest parallel corpus of natural language to regular expressions to-date.

Autodetection and Classification of Hidden Cultural City Districts from Yelp Reviews

- *Yelp Dataset Challenge Competition*

- Unsupervised learning algorithm that uses LDA topic modeling and Gaussian Mixture Models to automatically detect and label cultural districts within a city.

Industry

Perch Fitness — Cambridge, MA

- *Computer Vision Engineer*

June 2016 – Sept 2016

- Developed automatic exercise classification from video with deep CNN's.
- Developed facial recognition login, barbell path and form tracking systems.

Pinterest — San Francisco, CA

- *Machine Learning Engineer*

June 2015 – Sept 2015

- Worked on Recommendations team building machine learning models with big data pipelines.
- Enhanced our in-house DSL for iterating and deploying our machine learning models.

Fitbit — San Francisco, CA

- *Mobile Engineer*

June 2014 – Sept 2014

- Various feature work on iOS team.

Projects

Horizon

- *Deep Image Captioning for the Visually Impaired*

- Built chrome extension for the visually impaired that uses deep learning captioning to automatically supply alt-text for all loaded images.

Viki

- *Deep Speaker Recognition for Meetings*

- Built deep learning system that listens to conversations and automatically detects and logs interruptions to encourage more equitable meetings.

Mystery Snap

- *iOS application*

- iOS ephemeral photo sharing application that reached +200,000 users and +3 million photos sent.
- Shut down by Snapchat's legal team.

Skills

Languages: Python, Java, C++, Javascript, Lua

Tools: TensorFlow, Torch, numpy, scipy, keras, Node, Angular, React, Hadoop, Hive