

Yoni Nachmany

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EDUCATION

University of Pennsylvania, Philadelphia, PA

M.S.E. in Data Science (GPA: 3.53/4.00)

May 2019

- [Classes](#): Vision & Learning, Deep Learning for Data Scientists, Data Mining, Autonomous Racing.
- [Research](#): mapping roads in Ghana with DeepLab trained on 30cm satellite data from Sudan.
- [AP Latam](#): mapping roofs in slums with Mask R-CNN trained on 50cm satellite data from Rio.
- [Earth on AWS Fellowship](#): mapping land in Slovenia with U-Net pre-trained on BigEarthNet.
- [Empathy Dictionary](#): generated empathy and distress lexica from Empathic Reactions dataset.

B.S.E. in Networked and Social Systems (GPA: 3.30/4.00)

May 2018

- [Teaching Assistant](#): Crowdsourcing & Human Computation, Foundations of Data Science.
- [Human Computation 2017](#): presented poster on crowdsourced summaries of privacy policies.

EXPERIENCE

Radiant Earth Foundation, Geospatial ML Intern, Oakland, CA

Jun 2018 - Aug 2018

- [Nonprofit](#) providing open access and analytics on Earth imagery for global development.
- [Training Dataset for Global Land Cover Classification](#): generated per-pixel labeling in test areas with Random Forests trained on 10m satellite data at 80% accuracy, presented at NeurIPS 2018.

Azavea, Open Source Software Fellow, Philadelphia, PA

Jun 2017 - Dec 2017

- [B Corporation](#) creating civic geospatial web software while advancing state-of-the-art research.
- [GeoTensorFlow](#): enabled Scala geospatial data processing engine to run trained Python models.

Hack4Impact, Software Developer, Philadelphia, PA

Sep 2014 - Dec 2017

- [Student organization](#) building software applications to help nonprofits maximize their impact.
- [Transcribe4All](#): enabled concurrent transcription of audio links, identifying search terms, in Go.

Meetup, Core Engineering Intern, New York, NY

May 2016 - Aug 2016

- [Social network](#) of 40M members, 320K Meetup groups, and 120000 daily events globally.
- [App relaunch](#): under Senior API Engineer, sped queries and fixed API bugs in Java and Scala.

Clarifai, Machine Learning Research Intern, New York, NY

May 2015 - Aug 2015

- [AI startup](#) in visual recognition, won top five places in image classification at ImageNet 2013.
- [Shot boundary detection](#): led by CTO, built Django demo of dataset to facilitate video tagging.

SKILLS

Data Science: NumPy, Pandas, SQL, Spark. SciKit-Learn, Keras, TensorFlow, PyTorch, fast.ai. AWS, GCP.

Software Engineering: Python, Flask. Java, Scala. JavaScript, Node.js, Go. OCaml, Matlab. Git, Unix.

Leadership: Hack4Impact executive board, PennQuest orientation trip, Penn Alternative Breaks trip.