

# Yoni Nachmany

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## EDUCATION

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### University of Pennsylvania, Philadelphia, PA

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

*May 2019*

- [Classes](#): Vision & Learning, Data Mining, Autonomous Racing, Deep Learning for Data Scientists.
- [Thesis](#): mapping roads in Ghana with DeepLab trained on 30cm satellite data from Khartoum.
- [AP-Latam](#): mapping roofs in slums with Mask R-CNN trained on 50m satellite data from Rio.
- [Earth on AWS Fellowship](#): mapping land use in Slovenia by fusing 10m optical and radar data.

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

*May 2018*

- [Teaching Assistant](#): “Crowdsourcing & Human Computation”, “Foundations of Data Science”.
- [Gun Violence Database](#): automated crowdsourced information extraction of articles with NLP.
- [Human Computation 2017](#): presented poster on crowdsourced summaries of privacy policies.

## EXPERIENCE

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### 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 3M monthly attendees, 40M members, and 300K Meetup groups 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

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**Data:** NumPy, Pandas. SciKit-Learn, Keras, TensorFlow, PyTorch. Spark, Elastic MapReduce. AWS, GCP.

**Programming:** Python, Flask, SQLAlchemy, Git, Unix. Java, Scala. JavaScript, Go. Matlab, C++. OCaml.

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