**Yoni Nachmany**

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EDUCATION

**University of Pennsylvania**, Philadelphia, PA

*M.S.E. in Data Science May 2019*

* [**Courses**](https://dats.seas.upenn.edu/):Vision & Learning, Data Mining**,** F1/10 Autonomous Racing Cars, Big Data Analytics.
* [**Thesis**](https://drive.google.com/file/d/1BSmulFHsGGBm2JivX5JJ79BA046fOxYZ/view?usp=sharing)**:** Road Network Detection in Developing Countries with High-Resolution Earth Imagery.
* [**AP-Latam**](https://medium.com/@DymaxionLabs/how-can-we-count-roofs-within-informal-settlements-in-latin-america-e8509f0d5534): leading team detecting informal settlements in satellite images using deep learning.

*B.S.E. in Networked and Social Systems (GPA: 3.30/4.00) May 2018*

* [**Gun Violence Database**](https://mappinggunviolence.herokuapp.com/): automated crowdsourced information extraction of articles with NLP.
* [**Human Computation**](https://www.humancomputation.com/2017/papers.html#wip) **2017**: presented poster on crowdsourced summaries of privacy policies.

EXPERIENCE

**Radiant Earth Foundation**, *Geospatial ML Intern*, Oakland, CA *Jun 2018 - Aug 2018*

* [**Nonprofit**](https://www.radiant.earth/about/) providing open access and analytics on Earth imagery for global development.
* **Global Land Cover Classification Training Dataset**: generated semantic segmentation for 8 classes at over 80% model accuracy in 3 test sites using Random Forests on satellite imagery.

**Azavea**, *Open Source Software Fellow*, Philadelphia, PA *Jun 2017 - Dec 2017*

* [**B Corp**](https://www.azavea.com/)**oration** creating civic geospatial web software while advancing state-of-the-art research.
* [**GeoTensorFlow**](https://github.com/yoninachmany/geotensorflow): enabled Scala geospatial data processing engine to run trained Python models.
* **Planet-Amazon Kaggle**: under VP of Research, interactively showed tagging results on a map.

**Hack4Impact**, *Software Developer*,Philadelphia, PA *Sep 2014 - Dec 2017*

* [**Student organization**](https://hack4impact.org/) building software applications to help nonprofits maximize their impact.
* [**Asylum Connect Catalog**](https://hack4impact.org/projects/asylum-connect-catalog): specified product with client and led development of Flask backend.
* [**Transcribe4All**](https://github.com/hack4impact/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**](https://www.meetup.com/media) of 3M monthly attendees, 40M members, and 300K Meetup groups globally.
* [**App relaunch**](http://blog.meetup.com/meet-new-meetup/): 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**](https://clarifai.com/about) in visual recognition, won top five places in image classification at ImageNet 2013.
* [**Shot boundary detection**](http://www-nlpir.nist.gov/projects/trecvid/shots.html): led by CTO, built Django demo of dataset to facilitate video tagging.

SKILLS

**Data**: NumPy, Pandas, Matplotlib. PySpark, Elastic MapReduce. SciKit-Learn, PyTorch, TensorFlow.

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

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