# 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.