

## Isaac McKillen-Godfried

207-249-5188 • [igodfrie@brandeis.edu](mailto:igodfrie@brandeis.edu) • <http://isaacmg.github.io>

### Experiences

**Founder** PaddleSoft, Bangor ME Jun-2015 to present

- Created a neural network (NARX) in MATLAB to predict the flow of the Kenduskeag stream.
- Utilized big data technologies like Spark and Hadoop to perform distributed analysis and train NLP algorithms like Word2Vec and LDA on large datasets.
- Built realtime streaming APIs and dashboards with Avro, Kafka, Flink and D3.js
- Developed a Ruby on Rails application that allowed 20-30 paddlers to form teams for the ACA nationals.

**Data Analyst Intern** Eastern Maine Medical Center, Bangor ME Jun-2016 to Jan-2017

- Worked with patient and financial data using SQL, third party APIs, and Altova MapForce.
- Performed ETL on complex datasets in order to provide concrete metrics and to create data visualizations for both physicians and hospital management.

**IT Intern** Eastern Maine Health Services, Brewer ME May-2014 to Aug-2014

- Analyzed LAWSON reports using Microsoft Access and Excel
- Built databases with VB and SQL to automate Affordable Care Act and COBRA reporting

**Research Assistant** University of Maine, Orono ME Jun-2012 to Aug-2013

- Used Gaussian 09 to run electronic structure calculations on tungsten oxide catalysts.
- Researched the catalytic upgrading of pyrolysis oils to fuel grade oil.
- Wrote bash scripts to interact with university supercomputer.

### Other Accomplishments

**Kaggle Competitions Expert**- ranked in the top 5% of all data scientists on Kaggle. Earned bronze medals in both the Allen AI Science Challenge (using AI to solve multiple choice questions) and the 2017 Data Science Bowl.

**Kaggle Santander Bank**- Utilized machine learning models like XGBoost and random forests, designed feature extraction algorithms, stacked predictive models, and collaborated with teammates in order to predict customer satisfaction with Santander Bank. Our team finished in the top 25% overall.

### Skills

- **Languages:** Java, Python, Ruby, Scheme, SQL, JavaScript, and Scala.
- **Technologies:** Rails, Spark, Hadoop, Flink, NoSQL, Redis, Kafka, NodeJS, D3.js, and ElasticSearch.
- **Tools:** AWS, Docker, Git, Travis-CI, Codecov, and Codefresh.

### Education

B.A. Hispanic Studies Brandeis University, Waltham MA Aug-2013 to May-2017

Minors in Computer Science and Near Eastern and Judaic Studies