

Isaac McKillen-Godfried

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Work Experience

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

- Worked with patient and financial data using SQL and common data analytics tools.
- 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.

Projects

Kenduskeag Stream Flow Prediction- Created a Ruby on Rails application to collect streamflow and weather data in a PostgreSQL database, developed a time series Neural Network in MATLAB to predict the flow of the stream, and showcased predictions in a graph using Chart.js and jQuery.

Penobscot Nationals Team Competition- Developed a web application using Ruby on Rails and JavaScript that enabled 20-30 competitors in the American Canoe Association whitewater nationals to form teams.

Facebook analysis in Spark – Wrote a Jupyter Notebook that analyzes JSON data scraped from Facebook's API using Apache Spark and extended the scraper to publish the messages to Kafka as they were scraped.

D3.js visualization of river flow - Developed a visualization of hourly water flows with D3.js and JavaScript. Also, created a line chart to visualize historical river data.

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.

Languages and Skills

- Java, Python, Scheme, SQL, JavaScript, and Scala.
- data engineering, Spark, Hadoop, Docker, NoSQL, Kafka, D3.js, Elasticsearch, AWS, EMR, and Flink.

Education

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

Minors in Computer Science and Judaic Studies