914-200-9306 SACKSTEINSOPHIE@GMAIL.COM

# Sophie Sackstein

## EDUCATION

**Johns Hopkins University Masters in Data Science** ( Current, Part-Time )

**University of Rochester** (Triple Major)  GPA: Computer Science (3.9) Brain and Cognitive Science (3.5) Psychology (3.7)

## EXPERIENCE

**NOVETTA MACHINE LEARNING ENGINEER**
*MAY 2020 - CURRENT*
Researched and applied current state-of-the-art machine learning algorithms including GPU-accelerated Entity Resolution and Rapids/Dask integrated workflows. Authored NLP suite solving problems such as question answering, keyword extraction, event detection, and abstractive summarization. Developed graph networks solutions including community clustering, node classification, and link prediction.

**M&T BANK SOFTWARE ENGINEER**
*JULY 2019 - MAY 2020*
Used Docker and Kubernetes for container orchestration. Built CICD pipeline for deploying applications,  Ansible to push configurations to VMs (created with VMware). Used KVM (with SELinux & sVirt) thus  applying MAC security to guest VMs in test environments. Load balancing and implementing replication  controllers in Openshift managed pods. AWS/Azure cloud computing (Iaas/Paas). Also worked on a Fraud  Detection project using GBM and anomaly detection.

**DATABASE PROGRAMMER, STRONG MEMORIAL HOSPITAL**
*SEPTEMBER 2018 - JULY 2019*
Optimized database storage and implemented an improved paging system. Assisted in creating learning  modules for doctors to update their medical knowledge. Used microarray database, BLAST, and LabKey  Server to query across a range of data sources.

**LISSA/ LEN LAB RESEARCH, UNIVERSITY OF ROCHESTER**
*JANUARY 2018 - JULY 2019*
Collaborated in building a conversational agent adapted for Autism. Developed web interface and formulated  linguistic schemas for commonsense and auto-cognitive reasoning. Designed a tree transduction language  for scalable inference engines for Episodic Logic. Deriving general world knowledge from text with domain  reasoning, temporal rule-based probabilistic inference using algebraic probabilities.

**LAB MANAGER, COMPUTATION AND LANGUAGE LAB, UNIVERSITY OF ROCHESTER**
*SEPTEMBER 2017 -SEPTEMBER 2018*
Conducted research on development of numerical cognition cross-culturally- using Bayesian statistics to  model human concept learning and relational reasoning. Lab manager duties included conducting  meetings, handling IRB approval, HIPAA compliance, server maintenance and code reviews.

*LANGUAGES* (Python, Java, C, C++, R, Racket, SQL, PHP, Haskell, LISP, Swift, Javascript, CSS, Swift, Objective C,  Matlab, OCAML, SPSS); *SOFTWARE* (MATLAB, Praat, WAMP, LAMP stack, Arduino, RAS, Django, Flask,  Ansible, Kubernetes, Openshift, Docker, REDCap, Qualtrics, PsychoPy); *TOOL BOXES* (NLTK, TensorFlow,  OpenCV- Python, Scikit-Learn, Rapids, Tpot, AutoML);