

Amber K. Lenon

Gansevoort, NY

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Skills

Languages	Python (Numpy, H5py, Pandas, Matplotlib, Scipy, Beautiful Soup) Bash, git, HTCondor, SQL
Tools	Jupyter, Mode, Jira, Mural
Machine Learning	Natural Language Processing (SpaCy, RAKE)
Statistical Modeling	Time Series Analysis, Bayesian Inference, Matched Filtering, Jaccard Similarity

Experience

Data Analyst - Smart Home

Remote, USA

IROBOT

Nov 2021 – Present

- Planned roadmap for new features with Smart Home leads.
- Investigated Smart Home feature adoption to improve customer experience.
- Created and reviewed Smart Home messaging campaign target queries.
- Developed KPIs and review campaigns for user experience with the product manager and UX design lead.
- Delivered insights on features through dashboards in Mode to produce KPIs and measures on ongoing and new features to drive the user experience with Smart Home features.
- Ensured data availability for new feature releases through coordination with data engineering and cloud teams.

Research Assistant

Syracuse, NY

SYRACUSE UNIVERSITY

Jan 2020 – July 2021

- Applied data munging algorithms to largescale time-series data sets.
- Developed open source data-analysis software for use in gravitational-wave astrophysics.
- Utilized Bayesian inference on largescale time series data sets to measure features.
- Conducted a Markov chain Monte Carlo simulation to estimate the sensitivity of a detector.
- Managed large-scale scientific workflows in the HTCondor high-throughput computing environment.
- Implemented matched filtering in noisy largescale time series data sets.
- Created informative graphics and gifs using Adobe Creative Cloud to illustrate physics concepts.

Data Analyst

Remote, USA

VANGUARDSTEM

Oct 2020 - June 2021

- Developed code using Beautiful Soup to parse Women Crush Wednesday articles.
- Determined the frequency STEM role models listed in VanguardSTEM articles using SpaCy.
- Supported Black and Non-binary women of color in STEM and kept them aware of the VanguardSTEM community.
- Mentored participants in Guerilla Mentoring.

Projects

Black in X Network Builder

RECOMMENDER

- Developed a recommendation engine for Black in Physics, Chemistry, and Data to recommend people to follow on Twitter based on given keywords using Natural Language Processing.

Education

Syracuse University

Syracuse, NY

PHD IN PHYSICS

Jan 2020 - May 2021

West Virginia University

Morgantown, WV

MS IN PHYSICS

Aug 2016 - Dec 2019

Syracuse University

Syracuse, NY

BS IN PHYSICS

Aug 2013 - May 2016