Sarah Lau Hale

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SKILLS

Programming Languages

Enjoys: Scala • Rust • C++ • bash

Experience with: Java • Python • SQL • TeX • Fortran • MATLAB • Mathematica • Prolog • Racket • JavaScript • HTML • CSS

Tools & Software

Regularly works with:
GitHub • git • bash/shell • Apache Airflow • Apache Spark • Google Cloud Platform • Google Compute Engine • Google Cloud Storage • Google BigTable • Google BigQuery

Experience with:
Apache Avro • Protobuf • Apache Kafaka • Google Dataflow • Grafana • Terraform • Jenkins • Bazel • sbt • GitHub Actions • Google Cloud Build • BuildKite • Kubernetes • Docker • Docusaurus • Vuepress • Jekyll • Keras • TensorFlow • Jira

EXPERIENCE

ETSY | Senior Machine Learning Engineer   Apr 2021 – Current
Working in the **Feature Systems** team within **Machine Learning Enablement**. We maintain a Feature Bank of machine learning features that is used by many teams to train various models. Currently working on Time Machine, a product to enable quality ML training data that is ensured to not have any data leakage.

ETSY | Machine Learning Engineer   Jul 2019 – Mar 2021
Worked in the **Advanced ML Systems** group within **Data Science**. Lead MVPs for various new product initiatives including: joint optimization for localized search, a representative data sampling tool, a faster model evaluation tool.

GOOGLE | Software Engineer Intern   May 2018 – Aug 2018
Worked in the Quality team of **Dynamic Search Ads** to improve the precision and recall of the query/advertisement matching model.

GOOGLE | Engineering Practicum Intern   May 2016 – Aug 2016
Facilitated addition of new sources of data to local search on **Google Maps** by creating an internal pipeline to transform open government data for use in Maps.

RESEARCH

COLUMBIA UNIVERSITY | Dean's Fellow   Aug 2018 - May 2019
Worked on applying deep learning to measuring cosmological parameters in simulated weak lensing maps.

LIGO | Undergraduate Research Fellow   Jun 2017 – May 2018
Personally developed a deep learning gravitational wave classifier prototype which can distinguish simulated gravitational waves from transient noise with >99% accuracy.

EDUCATION

HARVEY MUDD COLLEGE | BS in Physics & Computers   May 2018
High Distinction • Departmental Honors

Coursework: Artificial Intelligence • Machine Learning • Neural Networks • Computer Systems • Data Structures and Program Development • Computational Methods in Physics • Fourier Series and Boundary Value Problems