Sarah Lau Hale

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SKILLS

Machine Learning • Infrastructure
Software Development • Research

Scala • Java • Python
C++ • Rust • Bash/shell
MATLAB • Mathematica
JavaScript • HTML • CSS

Apache Spark • Apache Avro
Google Cloud Platform
BigQuery • BigTable
DataFlow • Protobuf
Keras • TensorFlow
Bazel • sbt • GitHub
Vuepress • Docusaurus
Finagle • Scalding/Cascading

EDUCATION

HARVEY MUDD COLLEGE
BS in Physics & Computers
May 2018 | Claremont, CA
High Distinction
Departmental Honors

LINKS

LinkedIn:// **slhale**
Github:// **slhale**

COURSEWORK

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

EXPERIENCE

ETSY | Senior Machine Learning Engineer
April 2021 – Current | Brooklyn, NY
Working on **Feature Bank** within the **ML Systems** team. I am a team domain expert for this product. Some sub-projects in this product that I have worked on include: enabling model inferencing using the Feature Bank, logging of features in real time, in-depth latency and JVM garbage control analysis, general performance improvements, etc

ETSY | Machine Learning Engineer
July 2019 – March 2021 | Brooklyn, NY
Worked in the **Advanced ML Systems** group within the Data Science team on projects improving Etsy search, recommendations, and ads. I lead MVPs for various new product initiatives including: joint optimization for localized search, a representative data sampling tool, a faster model evaluation tool. This work was primarily written in Rust, Python, and Scala.

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

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

LEADERSHIP

MIPS DOCSHUB WORKING GROUP | Lead
Dec 2021- current | Etsy
Lead for the ML Infrastructure Platform & Systems Documentation Hub Working Group. We are working twoard a centralized docs hub for the MIPS org, linking to documentation for every project that we work on.

VARIOUS WORKING GROUPS | Member
Aug 2019 - current | Etsy
MIPS Hiring WG - Revamping the interview process to better evaluate candidates at the intersection of machine learning and software engineering.
DSML Hiring WG - Evaluating and improving the interview process used across the Data Science and Machine Learning org.
MLS Documentation WG - Creating, maintaining, and adding docs to a central documentation hub for the ML Systems team.
DSML Onboarding WG - Improving and standardizing the onboarding process for new hires to the Data Science and Machine Learning org.

RESEARCH

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

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