

Sarah Lau Hale

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SKILLS

PROGRAMMING LANGUAGES

Python • Java • Scala • C++ • Rust • bash • SQL • TeX • MATLAB • Mathematica • JavaScript • HTML • CSS

SOFTWARE TOOLS

GitHub • git • Linux • shell • Apache Airflow • Apache Spark • Google Cloud Platform • Google Compute Engine • TensorFlow • Kubernetes • Grafana • Terraform • Docker • Jira

HARDWARE

Soldering • Breadboarding • Laboratory training (e.g. optics alignment, fume hood usage) • Telescope operation • Remote hardware operation • 3D printing • Hand press printing • Fiber arts (knitting, sewing, etc)

SOFT SKILLS

Troubleshooting • Visual and written communication • Independent work • Teamwork • Peer review

EDUCATION

BS IN PHYSICS & COMPUTERS @ HARVEY MUDD COLLEGE

May 2018

High Distinction • Departmental Honors

EXPERIENCE

SENIOR MACHINE LEARNING ENGINEER @ ETSY

Apr 2021 – Jan 2024

Formative member of the Feature System team within the Machine Learning Enablement initiative

- Championed modern documentation practices for the team
- Communicated relevant technical knowledge to management
- Domain expert on the team's legacy code
- Critical to designing and implementing key code for a variety of the team's products
- Lead and participated in working groups of various topics

MACHINE LEARNING ENGINEER @ ETSY

Jul 2019 – Mar 2021

Member of the Advanced ML Systems group within the Data Science team

- Independently lead MVPs for various new product initiatives including: joint optimization for localized search, a representative data sampling tool, a faster parallelized model evaluation tool
- Aided in development of the company's standardized machine learning feature storage and serving scheme. Co-authored corresponding paper and patent filing

DEAN'S FELLOW @ COLUMBIA UNIVERSITY

Aug 2018 - May 2019

Researched applying deep learning to measuring cosmological parameters in simulated weak lensing maps

SOFTWARE ENGINEER INTERN @ GOOGLE

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

UNDERGRADUATE RESEARCH FELLOW @ CALTECH LIGO

Jun 2017 – May 2018

Researched applying deep learning to classify gravitational wave data

- Created a prototype which could distinguish simulated gravitational waves from LIGO-typical transient noise with >99% accuracy

ENGINEERING PRACTICUM INTERN @ GOOGLE

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

SOFTWARE ENGINEER INTERN @ NASA AMES

Jun 2015 – Aug 2015

Helped produce Open MCT Web, an open source web-based telemetry visualizer intended for mission control usage