

Steve Herrin

CONTACT INFORMATION

steve.herrin@gmail.com
650-814-8865
San Jose, CA

www.github.com/steveherrin
www.linkedin.com/in/herrinsteve
medium.com/@steveherrin

EXPERIENCE

23andMe, Mountain View, CA

Engineering Manager: Data Services Team

March 2018 – present

- Authored engineering's open source policy, streamlining the release of 2 (to date) open source packages
- Grew a data-focused engineering team from 2 engineers to 3 teams totalling 16 engineers
- Supervised 2 leads to coordinate work across teams for a mix of junior and senior individual contributors

23andMe, Mountain View, CA

Software Engineering Individual Contributor (final title: Tech Lead)

January 2014 – March 2018

- Architected machine learning infrastructure and services, allowing training, evaluation, and easy promotion to production of models for dozens of users across multiple departments
- Created Genotyping Services, a Django webapp on AWS allowing external researchers to easily run genetic studies, increasing sales by over 2% and leading to strategic data-sharing agreements
- Led the building of a web-based portal that allows internal and external researchers to dynamically query anonymized data stored in HBase for >5 million customers
- Designed and implemented a Python library that provides a unified API for accessing customer data across MySQL, HBase, and other data stores
- Built 3 generations of data pipelines with Celery, Luigi, and AWS Simple Workflow to run Python, C++, and R algorithms that impute, transform, and analyze petabytes of genetic data

SLAC National Accelerator Lab, Menlo Park, CA

May 2008 – August 2013

Research Associate

- Applied machine learning and computer vision algorithms to improve detector energy resolution by 25%
- Created a PHP logbook webapp with a MySQL backend for tracking work on the EXO-200 experiment
- Collected heterogeneous sensor data at 1 Hz from over 600 channels at a site with unreliable internet connectivity to protect \$10M of liquid xenon and for use in later analysis
- Developed batch data pipelines using Python, C++, and shell scripts to process TB of calibration data
- Mentored 1–2 junior graduate students (at any given time) on lab, coding, and statistical technique

Rice University, Houston, TX

May 2005 – May 2007

and **University of Washington**, Seattle, WA

June 2006 – August 2006

Undergraduate Research Assistant

- Implemented (in C++) and evaluated random forest and boosted decision tree algorithms that contributed to the discovery of single top quark production by Fermilab's D0 experiment

SKILLS

Languages: Python, Elm, C++, SQL, Shell Scripting, MATLAB/Octave, Rust, JavaScript, R (some experience)

Tools: AWS, NumPy, SciPy, Celery, Luigi, Django, MySQL, PostgreSQL, Git, L^AT_EX, HBase, Spark

Other: Machine Learning, Data Analysis, Statistics, Simulation, Sensors, Neutrino & Particle Physics

OPEN SOURCE

SpookyOTP: A lightweight Python implementation of TOTP/HOTP authentication

EDUCATION

Stanford University, Stanford, CA

June 2013

- Ph.D. (Physics)

Rice University, Houston, TX

May 2007

- B.S. (Physics)