

Sam Bernstein

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[Website](#)

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WORK EXPERIENCE

Unlearn.AI, San Francisco, CA

Jan. 2022 – Nov. 2022

Machine Learning Engineer

- Set up machine learning model pipelines for predicting disease progression of different diseases using clinical trial data in Python using NumPy, pandas, TensorFlow, and PyTorch
- Conducted hyperparameter optimization and built infrastructure for finding performant models using distributed computing in AWS and a local cluster with Optuna and Redis
- Benchmarked performance and demonstrated a 10x speedup in training of best model architecture

Everlaw (eDiscovery), Oakland, CA

Aug. 2019 – Dec. 2021

Full Stack Software Engineer | Java, TypeScript, Python, MySQL, Postgres, Spring, Hibernate

- Developed from end-to-end Everlaw's most user-requested feature, "Saved Views," creating an ecosystem of shareable settings in Everlaw's document results table, leveraged daily by thousands of users
- Used multiprocessing to parallelize OCR on individual documents in Everlaw's distributed document ingestion system in AWS, reducing completion time for the average upload by 15%
- Served as Dev-on-Duty, fixing bugs and communicating between Customer Success and Engineering team
- Overhauled Everlaw's document coding toolbar, fixing all existing bugs and adding functionality for users to save and share presets of document review codes

Percolata (machine learning startup), Palo Alto, CA

July – Sept. 2018

Machine Learning Intern | Python, NumPy, pandas, Keras, XGBoost, MySQL

- Automated model training processes and reduced onboarding time for future employees by documenting and expanding Percolata's machine learning infrastructure
- Trained a deep convolutional network architecture to rival accuracy of Percolata's best existing models

Fanbase (social media startup), Santa Monica, CA

June – Aug. 2017

Software Developer

- Wrote scripts to process and analyze large text files of Twitter user data; reduced runtime for data processing tasks by a factor of 30
- Developed scripts for generating phrases semantically related to an input list by leveraging APIs

Geobiology Laboratory, California Institute of Technology, Pasadena, CA

September 2014 – July 2017

Lab Technician

- Collaborated with Prof. Joseph Kirschvink on experiments to discover the human magnetic sense and bring it into conscious awareness. Published positive results: bit.ly/magnetic-sense

EDUCATION

Princeton University, Princeton, NJ

Sept. 2015 - June 2019

- Bachelor of Science in Engineering; Major: Computer Science
- Study abroad in Spain: University of Granada, junior year spring term 2018
- Senior Independent Work: semester-long projects on interpreting and calibrating deep neural networks
- Princeton Table Tennis Club, *President and Officer*. Led team to 2017 Collegiate National Championships

PUBLICATIONS

<i>Testosterone: A Guide to Radical Wellness</i> , Amazon KDP, February 2024		https://a.co/d/3aBP3Y0
• Authored a comprehensive, 200-page, integrative, evidence-based, and wholesome hormone health guide		
“Transduction of the Geomagnetic Field as Evidenced from alpha-Band Activity in the Human Brain”		
eNeuro, March 2019		bit.ly/magnetic-sense
• Co-authored peer-reviewed article based on experiments conducted at the California Institute of Technology, demonstrating evidence of a human magnetic sense.		

SKILLS

- Development tools and languages:
 - Strong knowledge of Java, Python, TypeScript, JavaScript, HTML, Git, Jupyter Notebooks
 - Working knowledge of MySQL, Postgres, C#, Unity, Sass, REST, OCaml, NumPy, pandas
 - Prior experience with C++, C, MATLAB, Dojo Toolkit, Spring, Hibernate, Docker, AWS
- Fluent in Spanish (verbal and written)
- Expert at Rubik's Cube speedsolving; [personal record](#) of 12.33 seconds to solve cube in competition