

RYAN FRIBERG

Contact

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Education

Columbia University

New York, NY
MS in Computer Science
GPA 4.03/4.00

The University of Chicago

Chicago, IL
Summa Cum Laude
BS in Computer Science
Specialization – ML
BA in Astrophysics

Languages and Frameworks

C/C++
Python
Pytorch
Scikit-Learn
TensorFlow/Keras

Proficient in:

Swedish
French
Japanese

Basic knowledge:

Korean

A Machine Learning Engineer with significant proven experience applying artificial intelligence and machine learning in interdisciplinary settings. Through responsibilities such as building production-level predictive modeling and active learning platforms, I have expertise across the full machine learning stack. My software has had meaningful impact by enabling new machine learning use-cases, accelerating early-stage drug discovery efforts, and reducing computation costs. What drives me in my career has consistently been a passion to address the challenging unsolved problems with the highest potential return in improving human lives.

Experience

Machine Learning Research Scientist

Odyssey Therapeutics Since January 2024

- Architected and implemented core components of Odyssey's production machine learning infrastructure, enabling an ecosystem of software tools and platforms.
- Helped establish best practices for internal software development and model building.
- Regularly liaised between stakeholders to align project scopes and development roadmaps, ensuring effort is consistently focused on the highest value contributions.
- Co-developed the end-to-end, predictive modeling platform, streamlining and modularizing the model building pipeline, with features like full parameter optimization.
- Led the development of the active learning platform, built on top of the predictive platform, accelerating workflows such as virtual screening, reducing data labeling costs, and adding support for vastly larger chemical spaces (100M+ compounds).
- Unlocked capabilities such as rapid model prototyping and easy deployment and greatly expanded Odyssey's ability to leverage machine learning for drug discovery.

Machine Learning Research Intern

Odyssey Therapeutics May 2023 – December 2023

- Led a research project investigating the applications of a diffusion-based machine learning pipeline in drug discovery.
- Explored innovative contemporary approaches to include molecular structural information to the learning and generative processes.

Teaching Assistant – Creative Machines and Innovative Instrumentation

The University of Chicago Department of Physics March 2022 – June 2022

Machine Learning Research Assistant

The University of Chicago Department of Computer Science Fall 2021

- Assisted with the study of applying machine learning on nuclear magnetic resonance spectroscopy data for system identification.

Software Development Intern

IBM Summer 2021

- Refactored IBM's API Connect's testing automation platform and developed a new pipeline for the platform to improve the deployment process.

Jeff Metcalf Scholar Research Assistant

Hong Kong University Department of Astrophysics Summer 2020

Software Engineering Intern

Icomera AB | Gothenburg, Sweden Summer 2019

Research Assistant

Georgetown University Department of Neurobiology September 2017 – January 2018

Software Engineering Intern

BroadSoft (now Cisco) Summer 2015 and 2016