Jonathan Yin

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Education _

Yale University Sept. 2020 - May 2025

Double major in Computer Science and Statistics & Data Science, GPA: 3.97/4.0

• Selected coursework: Distributed Systems, Parallel Programming, Algorithms, Deep Learning, NLP, Intermediate Machine Learning, Financial Economics, Linear Models, Probability & Statistics Theory, Discrete Math

Experience _____

Lifelike (YC S23)

May. 2023 - Nov. 2024

CO-FOUNDER San Francisco, CA

- · Took a leave of absence from Yale to build Lifelike with \$500k funding from Y Combinator, a top startup accelerator
- Launched one of the first real-time low-latency AI phone calls, and scaled the platform to over 300,000 users with Next.js, FastAPI, AWS ECS, Elasticache, and MySQL
- Fine-tuned LLMs and diffusion models (like Llama 3 and FLUX) to support real-time image generation for roleplay, and built the first real-time visual roleplay platform with character/scene consistency
- Served production traffic from self-hosted LLMs with vLLM and SGLang and built a custom image generation inference library, incorporating various techniques like regional prompting, IP Adapter, and ControlNet

Benchling Jun. 2022 - Aug. 2022

SOFTWARE ENGINEERING INTERN

San Francisco, CA

- Integrated chemical editor into the electronic lab notebook, allowing users to design molecules or chemical reactions within notebook entries
- · Created endpoints to convert finalized chemical structures from notebook entries into registered entities usable across the platform
- Released to enterprise customers as part of September 2022 release

Octant Jun. 2021 - Aug. 2021

Machine Learning Intern

Emergville, CA

- · Used graph convolutional networks for molecular property prediction to determine efficacy of drug synthesis pipeline
- · Built similarity search tool to optimize which products to synthesize for secondary screening rounds based on hits from primary screen
- · Applied K-means and UMAP to developed tool to visualize, cluster, and interactively explore high-dimensional molecular features

Broad Institute of MIT and Harvard - Regev Lab

Jan. 2019 - Dec. 2020

Cambridge, MA

MACHINE LEARNING RESEARCHER

Worked on improving GPCR binding prediction with compressed sensing, Bayesian methods, and machine learning

- Developed novel deep learning architecture to create more meaningful latent molecular representations
- Paper accepted and selected for oral presentation at 2020 NeurIPS workshop, Learning Meaningful Representations of Life

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Beagle Learning

Jul. 2020 - Aug. 2020

SOFTWARE ENGINEERING INTERN

Boston, MA

- Built course setup, course overview, and assignment creation pages for online learning platform
- Used React, JavaScript, HTML, and CSS, and released platform to early adopters from various schools and universities

Conferences_

Learning Meaningful Representations for Life

Dec. 2020

NEURAL INFORMATION PROCESSING SYSTEMS (NEURIPS) 2020 WORKSHOP

- Yin J*, Chung H*, Regev A. A multi-view generative model for molecular representation improves prediction tasks (paper)
- Combined multimodal representation learning with variational autoencoders to improve latent molecular representations (<u>talk</u>)