

Jeremy A. Fisher

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Professional Experience

Senior Software & Machine Learning Engineer
VantAI

New York City, NY
May 2021 - Present

- Designed and implemented ETL pipelines for machine learning, including routine model retraining and human-in-the-loop labeling
- Technical ownership of a Golang/React data dashboard to guide scientific decision makers
- Containerized and deployed machine learning inference services on Kubernetes
- Established infrastructure as code practices throughout company offerings

Software Engineer
Becton Dickinson & Company

Menlo Park, California
Feb. 2018 - July 2019

- Developed data analysis pipelines to crunch large genomic datasets
- Reduced monthly AWS costs by 64% through algorithmic improvements, Cython-rewrites and tuning batch processing configurations
- Lead the development of the software component for a medical device product
- Established CI/CD workflows and doubled test coverage

Research Associate
University of California, San Francisco

San Francisco, California
Oct. 2016 – Aug 2017

- Orchestrated a breeding program to develop a transgenic mouse
- Produced and analyzed experimental, immuno-oncology data

Education

- Carnegie Mellon School of Computer Science, M.Sc. Computational Biology 2019-2021
Selected coursework: Neural Networks for NLP (11-747), Machine Learning (02-680), Algorithms and Data Structures (02-613), Modeling and Simulation (02-712)
- Carleton College, B.A. Biology 2012-2016

Recent Projects & Awards

- **SciRex**: improved SOTA for relation extraction accuracy on SciRex challenge by 10%
- **Story Circle**: wrote web game where players and AI agents take turns telling a story
- **Huggingface Transformers Contributions**: wrote series of doctests for Salesforce's CTRL with examples tailored to the unique characteristics of the language model
- **First Place, Data Driven Healthcare Track** John Hopkins Medhacks 2020

Languages, Libraries and Models

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|--------------|----------------|-------------|--------------|
| • Python | • PyTorch | • BERT | • Terraform |
| • Rust | • Huggingface | • GPT-J | • Kubernetes |
| • Golang | • Matplotlib | • pSp | • FastAPI |
| • Typescript | • Scikit-learn | • StyleGAN2 | • PyTest |
| • React | • GCP | • NeRF | • English |
| • SQL | • AWS | • ViT | • French |