

## DELPHI ("TINYEVALS") | GITHUB.COM/DELPHI-SUITE/DELPHI

2024 - Present: Evals Technical Lead

- Leading team of software engineers and researchers to develop infrastructure for training and evaluating small, reproducible language models
- Rewrote model training pipeline for significantly improved reliability, speed, and configurability

## RATIONAL ANIMATIONS | SCRIPTWRITING

2023 - Present

- Writing, editing, and consulting on scripts about AI Alignment, Effective Altruism, and related topics.
- Over one million views on videos I scripted as of March 2024

## TEMPLE CAPITAL | QUANTITATIVE INVESTING STRATEGIES

2022: ML Engineering Consultant

- Optimized custom in-house investment analysis engine
- Built CI/CD Pipeline from Scratch
- Expanded support for synthetic assets
- Established coding style and formatting guidelines

## BLUE ROSE RESEARCH | PUBLIC OPINION MODELING & RESEARCH

2021: Senior Machine Learning Engineer

- Optimized TF-Probability Variational Inference pipelines inferring public opinion distributions given noisy data
- Optimized database queries to speed up time-consuming operations

## META / FACEBOOK | HATE SPEECH ENGINEERING

2017 - 2020: Software Engineer - Machine Learning & Infrastructure

- Developed Facebook's first proactive hate speech classifiers in English, French, Arabic, and Portuguese
- Optimized models to run billions of times per day
- Integrated computer vision and multi-lingual signals to improve performance
- Identified and addressed novel issues in existing training pipeline infra causing unintended classifier behavior
- Trained and deployed model that accidentally removed the Declaration of Independence from Facebook on July 4th, 2018. Whoops.
- Built volume-adjusted thresholding system to optimize experts' time, maximizing per-sample training value while prioritizing high-impact content
- Developed stratified offline datasets to enable rapid testing and iteration.
- Built fully-automated classifier deployment pipeline capable of daily updates across multiple languages with A/B tested pilot models
- Surfaced extremely surprising issues impacting user well-being

## LENDINGROBOT | PEER LENDING INVESTMENTS

2016 - 2017: Senior Backend Engineer; Financial Data Analyst

- Delivered machine-learning investment strategy for world's first peer-lending automated portfolio platform
- Weekly reports to CEO on investments/tech/recommendations
- Automated data collection from multiple sources
- Delivered steady returns on over \$50 million of client investments
- Notarized investment records on the Ethereum blockchain

## AMAZON | AWS NETWORKING

2014 - 2015: Systems Engineer II

- Automated testing pipeline for the custom networking software AWS runs on physical routers, reducing testing cycle from weeks to hours
- Built custom tools to automate management of highly specialized hardware.
- Built novel Docker deployment to enable multiple teams to test physical network interfaces on a device in isolation from each other

## DEMOCRATIC NATIONAL COMMITTEE | SYSTEMS ENGINEERING

2011 - 2013 : Linux Systems Engineer | 2013 : Lead Systems Engineer

- Built/owned 1000's of metrics to maximize uptime of critical infra 24/7
- Saved over \$100k by analyzing TCO on physical vs cloud DB solutions
- Revamped backup system to achieve better fidelity, 2x cheaper and 3x faster
- Supported multiple teams by building an automated webpage capture system