

Frederick Robinson

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Employment

- 2024–2025 **Principal Applied Scientist (later Member of Technical Staff)**, *Amazon SF AI Lab*, San Francisco, CA
- Early member of Amazon’s SF AI Lab, reestablishing infra and experimentation pipelines after Adept’s transition.
 - Founding member of the reinforcement learning group, setting up RLHF systems and advancing CoT/RLVR training.
 - Drove technical leadership through open-source contributions, mentoring, and engineering best practices.
- 2024 **Member of Technical Staff**, *Adept*, San Francisco, CA
- Improved reliability of computer-use agents by developing evaluation frameworks, data collection pipelines, and SFT experiments.
 - Worked across modeling, infra, and evaluation in a fast-paced startup environment.
 - Contributed foundational work that supported the team’s transition into Amazon.
- 2022–2023 **Staff Machine Learning Engineer**, *Stripe, Inc.*, Supportability Intelligence
- Led a cross-functional team of ML and backend engineers, delivering > 20% improvement in Terms of Service violation enforcement with LLMs.
 - Developed a transformer-based merchant website text classification model and a new service centralizing merchant business model data.
 - Scoped and delivered ML-driven systems that improved Stripe’s risk intelligence and supportability.
- 2017–2022 **Senior Applied Scientist**, *Amazon AWS - Interactive Video Service*, Twitch
- Designed and productionized ML models to optimize data center selection for video playback, reducing global buffering rates by > 1%.
 - Created streaming fraud detection system, improving detection of viewbot activity by > 75%.
 - Launched ML service predicting optimal video player settings and provided technical mentorship to applied scientists on research and engineering best practices.
- 2014–2017 **Software Engineer**, *Google, Inc. – Display Ads*, Remarketing Quality
- Built ML models and real-time bidding systems that optimized advertiser ROI and unlocked tens of millions in incremental annual revenue.

Skills

Skills Large Language Models, Reinforcement Learning (RLHF, CoT, RLVR), Supervised Fine-Tuning, Evaluation Frameworks, Distributed Training Systems, Data Collection Pipelines, Python, Golang

Education

- 2014 **Master of Arts in Mathematics**, *University of California Los Angeles*
- 2012 **Bachelor of Arts in Mathematics with Honors**, *Northwestern University*