

NEEV PARIKH

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EXPERIENCE

ML Research Engineer

METR

📅 Sep 2024 – Present

📍 Berkeley, CA

- Working on AI misalignment research (model organisms, chain-of-thought monitoring, etc.)
- Worked on developing state-of-the-art evaluations for automated AI R&D; see publications.

Software Engineer II

Stripe

📅 Jul 2022 – Sep 2024

📍 San Francisco, CA

- Built LLM and ML-based customer insights platform, with per-customer predictions and calculated business metrics.
- Built polished data-repair tooling for self-serve, developer use, which drove self-serve repairs from **60% to 90%**, increased system adoption from **40% to 60%**, and saved **120 hours** per year.
- Built high-performance, **5min** time-to-alert, automated testing system in Java, with instrumented metrics like availability and latency.
- Built terabyte-per-hour scale, Hadoop-based data pipelines in Scala Spark to ingest financial data in a double-entry, event-based, immutable log.

Research Engineering Intern

Common Sense Machines

📅 May 2021 – Aug 2021

📍 Boston, MA

- Implemented large-scale, auto-regressive Seq2Seq models for working with 3D geometry from images.
- Worked with **Deepspeed** to explore scaling options for **500M+** param models to feasibly scale existing sequence-based models.
- Implemented a Blender-based Gym environment for RL to optimize textures on a 3D model.
- Implemented a graphics algorithm to find surface patches in a 3D wireframe (Zhang et. al., 2013)
- Dockerized AWS pipeline to create cloud-independent dev/production environment.

Research Assistant

Brown University

📅 Jun 2020 – May 2022

📍 Providence, RI

- Worked on original research on unsupervised, representation learning and multi-task reinforcement learning; see publications.

PUBLICATIONS

- H. Wijk et al. (2025). “RE-Bench: Evaluating Frontier AI R&D Capabilities of Language Model Agents against Human Experts”. In: *Forty-second International Conference on Machine Learning*. URL: <https://openreview.net/forum?id=3rB0bVU6z6>.
- T. Kwa et al. (2025). *Measuring AI Ability to Complete Long Tasks*. arXiv: 2503.14499 [cs . AI]. URL: <https://arxiv.org/abs/2503.14499>.
- M. Merlin, S. Parr, et al. (May 2024). “Robot Task Planning Under Local Observability”. In: *Proceedings of the 2024 IEEE Conference on Robotics and Automation*.
- C. Allen, N. Parikh, and G. Konidaris (Dec. 2021). “Learning Markov State Abstractions for Deep Reinforcement Learning”. In: *34th Neural Information Processing Systems Conference 2021*.
- K. Asadi, N. Parikh, R. Parr, G. Konidaris, and M. Littman (Sept. 2020). “Deep Radial-Basis Value Functions for Continuous Control”. In: *35th AAAI Conference on Artificial Intelligence 2021*.
- N. Parikh*, Z. Horvitz*, N. Srinivasan*, A. Shah, and G. Konidaris (Oct. 2020). “Graph Embedding Priors for Multi-task Deep Reinforcement Learning”. In: *NeurIPS 2020. KR2ML Workshop*.
- M. Merlin, N. Parikh, E. Rosen, and G. Konidaris (May 2020). “Locally Observable Markov Decision Process”. In: *International Conference on Robotics and Automation. Workshop on Perception, Action, Learning*.

EDUCATION

M.Sc. in Computer Science

Brown University

📅 Aug 2018 – May 2022 (Concurrent)

🎓 GPA: 4.0

Advised by: **Prof. George Konidaris**

B.Sc. in Computer Science

Brown University

📅 Aug 2018 – May 2022 (Concurrent)

🎓 GPA: 3.9 (*magna cum laude*)

Advised by: **Prof. Michael Littman**

PROJECTS

Hierarchical Doom

High-throughput, distributed RL project to train asynchronous PPO-Option Critic on the VizDoom environment

🐙 neevparikh/hierarchical-doom

IP/TCP

IP/TCP system on an abstracted virtual link layer in Rust, with split horizon and poison reverse.

🐙 neevparikh/ip-tcp

Volumetric Photon Mapping

Volumetric photon mapping by extending an open-source, Rust-based path tracer, based on Bitterli et. al. (presentation).

🐙 neevparikh/rpt

Spaceport

Tiny MacOS utility written in Rust (with Obj-C bindings) to partly replace the deprecated airport utility .

🐙 neevparikh/spaceport