NEEV PARIKH

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EXPERIENCE

Software Engineer

Stripe

Working on the Financial Data team

iii Jul 2022 – Present

San Francisco, CA

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.

Machine Learning Intern

Myelin Foundry

i Jun 2019 – Aug 2019

- Bangalore, India
- Developed a cutting-edge, deep-learning based pipeline in Pytorch and Tensorflow to augment VFX workflows for a POC product.
- Researched and managed a company-wide, cloud-compute platform, reducing potential monthly costs by 70%.
- Helped transition MLOps to Microsoft Azure.
- Implemented DeepLabv3+ from ECCV 2018 to develop SOTA pipelines for semantic segmentation tasks.
- Achieved 90% in business-aligned metrics with reasonable inference time.

Research Assistant

苗 Jun 2020 – May 2022

Brown University

Providence, RI

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

PUBLICATIONS

*equal contribution

- N. Parikh*, Z. Horvitz*, N. Srinvasan*, A. Shah, and G. Konidaris (Oct. 2020).
 "Graph Embedding Priors for Multi-task Deep Reinforcement Learning". In: NeurIPS 2020. KR2ML Workshop.
- 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.
- 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

a Aug 2018 – May 2022 (Concurrent)

GPA: 4.0

Advised by: Prof. George Konidaris

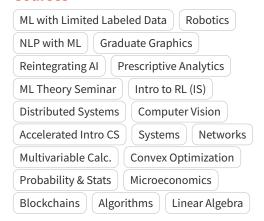
B.Sc. in Computer Science **Brown University**

a Aug 2018 – May 2022 (Concurrent)

GPA: 3.9

Advised by: **Prof. Michael Littman**

Courses



PROJECTS

Onager

Lightweight hyperparameter tuning and experiment management, with interfaces to Slurm and Gridengine clusters

camall3n/onager

Hierarchical Doom

High-throughput, distributed RL project to implement async. PPO-OC (Proximal Policy Optimized - Option Critic) on the VizDoom environment

neevparikh/hierarchical-doom

SKILLS

