

Kaahan Radia

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Education

2017–2021 **B.A. Computer Science**, *University of California, Berkeley*.
GPA: **3.52**

Classes CS61A: **A** CS61B: **A** EE16A: **A-**

Experience

2017–Present **Research Assistant**, *RISELab*, Berkeley.

Working with the Ray team to create and implement various Reinforcement Learning algorithms and supporting systems under Richard Liaw, Eric Liang, and Ion Stoica

- Reviewed and engineered improvements to Stack Neural Module Network, a fully differentiable approach to the Visual Question Answering task (Computer Vision)
- Implemented various scheduling algorithms (like Population Based Training from Google) under the Ray system (using Python, Tensorflow, and Java) to increase the efficiency of hyper-parameter search; Implemented models like LSTM
- Worked with Berkeley DeepDrive to create robust solutions to RL driving (on the Carracing-v0 toy problem):
 - Engineered custom OpenAI Gym wrappers to simulate noise and other debugging factors;
 - Created custom network architecture and losses that improved on most existing solutions, while coming close (within 100 reward) to the highest achieving algorithms in this environment

2018 **Machine Learning Research Intern**, *Ericsson*, Santa Clara.

Worked to create a distributed information system to efficiently pass information to thousands of reinforcement learning agents to train online in parallel

- Designed system from ground up, including algorithms to group similar nodes (agents), schedule information distribution, and the basic reinforcement learning agents themselves.
- Worked with a team of three, created and presented information system as well as the results and scalability of the entire venture

2016 **Graph Engineer**, *Naval Postgraduate School*, Monterey.

- With supervising professor, worked on creating a novel unsupervised algorithm to classify unlabeled or mislabeled networks that was 10% more accurate than solutions at the time
- Implemented and tested a method of identifying malicious nodes within social network graphs

Projects

2017 **Discount Cooking**, *Swift, iOS*, github.com/kaahan/discountcooking.

An app that creates a more personal connection between restaurants and their customers through exclusive recipes, and coupons on completion of said recipes

2018 **Playlist DJ**, *Javascript, Python, Web*, kaahan.pythonanywhere.com.

Created a tool for Spotify users that allows them to sort playlists according to different attributes of songs within, uses graph approximation, a NoSQL database, improvements on existing object sorting algorithms, and UI/UX design

Skills

Languages Python, CSS, HTML, Javascript, Java, Swift, C++, Lisp, SQL

Libraries Ray, Tensorflow, Numpy, Scikit-Learn, Plotly, React, Node.js