Scott Lee

Software Engineer

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Education & Skills

University of California, Berkeley

M.S. EECS (2020)
B.A. Computer Science (2019)
Coursework: Computer Vision, Machine Learning, Artificial Intelligence, Robotics, Natural Language Processing, Algorithms & Complexity, Convex Optimization, Linear Modeling, Theoretical Statistics, Probability & Random Processes

Skills

Python (PyTorch, TensorFlow, sklearn, Pandas)
SQL, Go, Java, R, C

Experience

Lyft • Software Engineer • San Francisco, CA — 2020 - Present

- Automated rider/driver acquisition

RISELab • Graduate Researcher • Berkeley, CA — 2018 - 2020

- Computer vision (explainability, few-shot), medical imaging (EKG)
- Key work: Neural-Backed Decision Trees

UC Berkeley • Head Teaching Assistant • Berkeley, CA — 2017 - 2020

- Took on various head TA roles for several data science classes (Data 8, Data 100, PH 196, PH 142)
- Directed a team of 50 TAs, 60 tutors, and 150 lab assistants in teaching a 1300 student course.
- Spearheaded infrastructure overhaul for scaling courses from 300 to 1000+ students (assignment development, autograding, course logistics).

Lyft • Software Engineering Intern • San Francisco, CA — 2019

- Dual project between infrastructure (generalized pricing API) and modeling (MVP of new pricing model).
- Conducted extensive data analysis and feature engineering, created robust endpoints to fetch features, and ran pricing experiments.

Rubrik • Software Engineering Intern • Palo Alto, CA — 2018

- Designed and implemented a robust cloud database system compatible with AWS, Azure, and GCP as part of Office 365 Backup, Rubrik's first SaaS product.

Projects & Research

More on my website: scottjlee.github.io

Neural-Backed Decision Trees • PyTorch

- Improving explainability for deep learning image classification using a decision tree-based structure.

BerkeleyTime • HTML, CSS, JS, Django, MySQL...

- An augmented course catalog used by more than 30,000 undergraduates at UC Berkeley.
- Provides a clean interface for serving course data, enrollment trends, grade distributions, and more.

Fido • Python

- A Slackbot that has a variety of features to assist teaching staff members, including roster lookup, Piazza paging, and groupshouts.

Object-Focused Edge Detection • PyTorch

- A general method for altering general algorithms for edge detection in order to produce edge mappings that focus on one or few individual objects in an image.