Scott Lee

Software Engineer

scott.lee@berkeley.edu • scottjlee.github.io • San Francisco

Machine Learning • Business Intelligence • Growth • Education

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, Probability & Random Processes, Statistical Theory

Skills

- **Python & Libraries:** PyTorch, TensorFlow, scikit-learn, Pandas
- **Other Languages:** SQL, Go, Java, R,
- **Frameworks & Specializations:** Airflow, AWS, Mode, Google & Facebook Marketing Tech

Experience

Lyft • Software Engineer (Growth Platforms) • San Francisco, CA • 2020 - Present

- **Overhauled key component** in existing infrastructure for automated driver acquisition, efficiently scaling marketing spend from a state of COVID-shutdown to **$1 million weekly spend across three paid media channels**.
- **Led multiple projects directly impacting key team OKRs**, partnering with numerous other engineers and scientists in order to boost growth marketers' productivity; drove both **short-term strategy** as well as **long-term team roadmapping**.

Lyft • Software Engineering Intern (Marketplace) • San Francisco, CA • 2019

- Dual project between infrastructure (**generalized pricing API**) and modeling (**new surge pricing model**).
- Conducted **extensive data analysis** and **feature engineering**, created dynamic endpoints to fetch features, and **owned several pricing experiments**.

Rubrik • Software Engineering Intern (Office 365 Backup) • Palo Alto, CA • 2018

- Designed and implemented an **integral component** of the **first product launch** of Office 365 Backup (Rubrik's first SaaS product): a **robust cloud database** and datastore system **flexibly compatible with AWS, Azure, and GCP**.

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

- Took on various head TA roles for data science classes (Data 8, Data 100, PH 196, PH 142).
- **Managed a team of 50 TAs**, 60 tutors, and 150 lab assistants in teaching a **1300 student** intro data science course.
- **Spearheaded several infrastructure overhaul projects** to support scaling across multiple growing courses, planning and delegating work amongst junior TAs (e.g. assignment development, autograding system, course logistics, cheating detection).

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

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

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.

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.

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, AWS

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