Scott Lee

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Software Engineer — Machine Learning • Business Intelligence • Growth Engineering • Education Technology

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, JavaScript
- **Frameworks & Domain Knowledge:** Airflow, AWS, Mode Analytics, Google & Facebook Marketing/AdTech

Experience

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

- **Redesigned two major components** in existing infrastructure for automated driver acquisition, efficiently scaling up marketing spend from COVID-shutdown to **$5MM+/month marketing spend across three paid media channels.**
- **Drove multi-quarter, mission-critical initiatives** directly impacting key team OKRs, partnering with numerous other engineers and scientists in a highly cross-functional environment; leveraged and augmented team's core database of ~30 tables in actively planning the team's **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 orchestrating 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 & Publications

More on my website: scottjlee.github.io

NBDT: Neural-Backed Decision Trees (ICLR 2021) • PyTorch

- Improving explainability for image classification in CNNs by generating a human-interpretable decision tree, which learns high-level concepts in images to make its decisions, rather than focusing on high-uncertainty attributes.

BerkeleyTime • JavaScript, Django, MySQL

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

Fido • Python, JavaScript, AWS

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