

# Scott Lee

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## Education

### University of California, Berkeley

B.A., Computer Science; B.A., Statistics | 2019, 3.94

*Relevant Coursework:* Data Structures, Algorithms/Intractable Problems, Techniques of Data Science, Machine Learning, Artificial Intelligence, Probability/Random Processes, Statistics, Discrete Math, Linear Algebra, Differential Equations, Multivariable Calculus

## Experience

### UC Berkeley, Data 8 (Foundations of Data Science) (<http://data8.org/>)

Head Undergraduate Student Instructor | Aug 2017 - Present

- Prepared materials, taught lab section, held office hours, and developed assignments, and facilitated class logistics.
- Managed staff, organizing exams and managing enrollment for a class of 1400+ students.

### UC Berkeley RISELab

Research Assistant | February 2018 - Present

- Applied convolutional neural networks to detect Premature Ventricular Contractions from electrocardiogram readings by recognizing ST changes.
- Built a convolutional neural network to detect Premature Atrial Contractions in order to predict unstable heart conditions.

### Brilliant, Inc. ([brilliant.org](http://brilliant.org))

Data Science / Education Intern | May 2017 - Aug 2017

- Conducted data analysis using SQL and Python on 1+ million emails to evaluate email algorithm effectiveness.
- Designed and produced curricula for "Math for Computer Science" and "Intro to Data Science" courses.

### ASUC Office Of The CTO, BerkeleyTime ([www.berkeleytime.com](http://www.berkeleytime.com))

Data Scientist/Product Manager | Jan 2018 - Present [Jan - Dec 2017: Lead Engineer]

- Managed a medium-sized team of student developers on maintaining and developing new features for the most popular augmented course catalog at UC Berkeley (26,000+ unique users).
- Currently working on a data-centered initiative with student course data.

## Technical Skills

**Programming:** Python (+ Pandas, Scikitlearn, TensorFlow, Apache Spark), SQL, Java

**Web Development:** HTML, CSS/Less, JS, jQuery, Bootstrap

## Selected Projects (more on my [website](#))

### Neural Net Applications | Python

- Implemented a neural net from scratch (creating a graph class, implementing matrix operations, backpropagation, etc).
- Applied NNs to solve various problems, such as digit classification, language classification, and function approximation.

### Song Classifier (<https://github.com/scottjlee/song-classifier>) | Python, Tensorflow

- Created a deep learning classifier that categorizes songs as either country or hip-hop based on lyrics frequencies.
- Achieved an accuracy rate of 89% and was selected as one of 10 winners of a 200-member Kaggle contest.

### Jesture ([devpost.com/software/jesture-ver-ddoski](http://devpost.com/software/jesture-ver-ddoski)) | HTML, CSS, JS, jQuery, Bootstrap, JSON, Python

- Worked on team of 4 at Cal Hacks 3.0 to build gesture application with the Synaptics touchpad.
- Implemented API for Spotify, Slack, Facebook, and more, then linked to a sleek web UI.