

# Scott Lee

Berkeley, CA | [scott.lee.3898@berkeley.edu](mailto:scott.lee.3898@berkeley.edu) | [scottjlee.github.io](https://scottjlee.github.io) | [Flickr](#)

## Education

### University of California, Berkeley

B.A., Computer Science; B.A., Statistics | 2019, 3.90

*Relevant Coursework:* Data Structures, Techniques of Data Science, Artificial Intelligence, Probability, Linear Algebra, Differential Equations, Multivariable Calculus, Discrete Math

## Experience

### UCSF School of Nursing

Research Assistant | Aug 2017 - 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.

### UC Berkeley, Data 8 (Foundations of Data Science) (<http://data8.org/fa17/>)

Undergraduate Student Instructor | Aug 2017 - Present

- Prepared materials, taught lab section, held office hours, and developed assignments, and facilitated class logistics.
- Assisted the Head of Staff in managing staff, organizing exams and managing enrollment for a class of 1200 students.

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

Lead Engineer | Sept 2016 - Present

- Developed new features for UC Berkeley's most popular course catalog, with over 26,000 unique monthly users.
- Led small team of developers in designing implementing a new schedule builder feature, spearheading UI/UX redesign and optimized website user workflow.

## Technical Skills

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

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

**Miscellaneous:** LaTeX, DSLR Photography, Lightroom, Sketch

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

### 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](https://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.

### Delta ([deltacalc.herokuapp.com/demo](https://deltacalc.herokuapp.com/demo)) | HTML, CSS, JS, jQuery, Bootstrap, Ruby on Rails

- Online open-source calculus curriculum with textbook and randomly generated practice problems, with immediate feedback, hints, detailed solutions.
- Created algorithm that learns which types of problems a student has trouble with and gives extra practice.