Scott Lee

Berkeley, CA | scott.lee.3898@berkeley.edu | scottjlee.github.io | Flickr

Education

University of California, Berkeley 2016 - 2020
B.A., Computer Science; B.A., Statistics; 3.90

Relevant Coursework: Data Structures, Foundations of Data Sci, Techniques of Data Sci, Artificial Intelligence, Probability, Lin Alg/Diff Eq, Multivariable Calculus, Discrete Math

Experience

UCSF School of Nursing
Research Assistant | Aug 2017 - Present
- Applied convolutional neural networks to detect PVCs from ECG data by recognizing ST changes.
- Built a CNN to detect PAC beats in order to predict unstable heart conditions.

Brilliant, Inc. (brilliant.org)
Data Science / Education Intern | May 2017 - Aug 2017
- Conducted data analysis using SQL and Python on over 1 million emails to evaluate the impact of algorithm changes and user behavior.
- Designed and produced curricula for "Math for Computer Science" and "Intro to Data Science" courses and improved courses in neural networks and algorithms.

ASUC Office Of The CTO, BerkeleyTime (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 and implementing a new schedule builder feature.
- Spearheaded UI/UX redesign and optimized website user workflow.

Technical Skills

Programming: Python, Java, SQL
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)
- Created a classifier that was able to distinguish between country and rap songs based on lyrics frequencies.
- Achieved an accuracy rate of 89% using TensorFlow's neural net classifier and was selected as a winner for a class contest.
- Built with Python and TensorFlow.

Jesture (devpost.com/software/jesture-ver-ddoski)
- 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.
- Built with HTML, CSS, Javascript, jQuery, Bootstrap, JSON, Python, C, and AppleScript.

Delta (deltacalc.herokuapp.com/demo)
- Online open-source calculus curriculum with textbook, supplemental videos, and other resources.
- 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.
- Built with HTML, CSS, Javascript, jQuery, Bootstrap, and Ruby on Rails.