Scott Lee

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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.

Data 8, UC Berkeley (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)
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)
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, TensorFlow, 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) | 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) | 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) | 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.