Julia Luo

📞 510-816-1580
✉ julialuo@berkeley.edu
github.com/julialuo
linkedin.com/in/juliazluo

SKILLS

- Python
- Java
- Javascript
- HTML/CSS
- SQL
- Android
- Firebase
- React JS

EDUCATION

University of California, Berkeley
Electrical Engineering and Computer Science, B.S.
3.97/4.00 cumulative GPA | 4.00/4.00 technical GPA

Berkeley, California
Aug. 2016 – Dec. 2019

EXPERIENCE

Robotic AI & Learning Lab
Undergraduate Researcher

Berkeley, California
Jan. 2018 – Present

- Perform sparse patch training on PyTorch FCC model to achieve affordance segmentation for grasping objects
- Generate training data and validate models using MuJoCo physics simulator and 3D objects from Blender

Google
Engineering Practicum Intern | YouTube Rights Management Team

Mountain View, California
May 2017 – Aug. 2017

- Created web app to showcase the sound recording and composition mapping abilites of the Content ID API
  - Developed using Javascript, HTML, and CSS integrated with the Polymer 2.0 framework
  - Currently used by the legal team at Sony Music to quickly view their sound recording assets and ownership
- Revised the back-end of auto-rejection algorithms to improve the fairness of the Content ID application flow
  - Developed back-end with Python and front-end with Spitfire templating language and HTML

UC Berkeley EECS Department
CS 61A Teaching Assistant

Berkeley, California
Aug. 2017 - Present

- Host weekly discussions, lab sessions, and office hours, and grade homework and exams for the course CS 61A
- Help students with concepts like recursion, mutation, and OOP both in-person and online on Piazza

Codebase
Contract developer

Berkeley, California
Jan. 2017 – Present

- Cooperate with team of 8 to build the Dash front-end and Python back-end of a web app for the start-up Riffyn
- Application performs multivariate regression on Riffyn users' data with lasso regression and categorical support

PROJECTS

League of Legends Champion Selector
Developed for Hack the North 2017

Waterloo, Ontario
Sep. 2017

- Trained TensorFlow model on 25,000 previous matches based on the 5 champion selections of each player
- Predicts the outcome of a match to 72% accuracy when a player inputs their and the opponent's champions
- Front-end of web application developed using React JS, back-end using Node JS to call Python TensorFlow script

Preserve
Developed for Mobile Developers of Berkeley

Berkeley, California
Apr. 2017

- Expiry date tracking Android app which features receipt-scanning technology and smart expiry date prediction
- Developed using Android Studio with Firebase back-end integration and Google Mobile Vision API

Petreon
Developed for TreeHacks 2017

Palo Alto, California
Feb. 2017

- Facebook Messenger bot and website presenting a patron system for adopting and pledging to homeless animals
- Front-end developed using HTML, CSS, Javascript, and JQuery, and back-end using AWS lambdas

Ethos
Winner of Social Impact award at CalHacks 2016

Berkeley, California
Nov. 2016

- Chrome extension that uses IBM Watson API to report the objectivity of articles and generate author profiles
- Front-end developed using HTML, CSS, Javascript, and JQuery, and back-end using Flask and PostgreSQL

AWARDS & DISTINCTIONS

Mary Wyatt Louise Award: Ranked top three in class based on overall academic average for all years of high school *Oct. 2016*

ECOO Computing Contest: Provincial rank of 26/500 teams *April 2016*

Fermat Mathematics Contest National Honour Roll: Approximate national rank of 119/20000 participants *Feb 2015*