




# Julia Luo

 julialuo@berkeley.edu  
 +1 510-816-1580  
 juliazluo.me

 github.com/julialuo  
 linkedin.com/in/juliazluo  
 devpost.com/julialuo

## Skills

- Python
- Ruby
- Java
- OCaml
- C & C++
- JS/Typescript
- Tensorflow & PyTorch
- Functional Programming
- React & React Native
- Android Studio & Firebase

## Education

### University of California, Berkeley

#### Electrical Engineering & Computer Science

- Eta Kappa Nu (EECS honor society) member
- Cumulative GPA: 3.99/4.00 | Technical GPA: 4.00/4.00

Graduated  
Dec 2019

## Experience

### Jane Street Capital

#### Core Services Team & Post-Trade Team

- Implemented user quotas for Kafka topic and partition usage and monitored changes with Zookeeper watches
- Added a baseline positions RPC to the service which decomposes derivatives into their underlying stocks
- Developed back-end using OCaml, and learned about functional programming paradigms and financial markets

New York City, NY  
May 2018 -  
Aug 2018

### Stripe

#### User Security Team

- Revamped password complexity rules using the Zxcvbn Ruby library complying with recent security research
- Collaborated with my team to enable SAML/SSO (Single Sign On) login capabilities for merchants
- Developed back-end using Ruby, working especially with creating and modifying dashboard API endpoints

San Francisco, CA  
May 2018 -  
Aug 2018

### Robotic AI & Learning Lab

#### Undergraduate Researcher under Sergey Levine

- Performed sparse patch training on PyTorch FCN model to do affordance segmentation for grasping objects
- Generated training data and validate models using MuJoCo physics simulator and 3D objects from Blender

Berkeley, CA  
Jan 2018 -  
May 2019

### Google

#### YouTube Rights Management Team

- Created web app to showcase the sound recording and composition mapping abilities of the Content ID API
- 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, HTML, and Javascript

Mountain  
View, CA  
May 2017 -  
Aug 2017

### UC Berkeley EECS Department

#### CS 170 Teaching Assistant (Efficient Algorithms and Intractable Problems)

- Host weekly discussions and office hours, and develop exam and homework problems
- Help students with concepts like graphs, dynamic programming, linear programming, and NP-completeness

Berkeley, CA  
Aug 2017 -  
Present

## Awards

#### Accel Scholar (2018 - Present)

- Highly selective industry mentorship program run by Accel Partners

#### Jane Street Electronic Trading Contest (2018)

- Finished 1st out of 33 invited teams

#### Dean's Honor's List (2016 - 2019)

- Top 10% of engineering undergrads by GPA

#### CalHacks (2016)

- Won Social Impact award

#### ECOO Computing Contest (2016)

- Provincial rank of 26 out of 500 teams

#### Fermat Mathematics Contest (2015)

- Made National Honor Roll with approximate rank of 119/20000 participants

## Projects

### Deep Puppets Facial Transfer for Videos

#### Graduate Class Research Project

- Accurately transfer the facial expressions of a source video onto the face and body of the target video
- Perform monocular face reconstruction, transfer expression vector from source to target, then modify Nvidia's vid2vid neural network to generate output video

Berkeley, CA  
May 2019

### League of Legends Champion Selector

#### Hack the North 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
- Front-end uses React JS, back-end uses Node JS

Waterloo, ON  
Sep 2017