

# Alvin Wan

alvinwan@berkeley.edu // github.com/alvinwan // aalv.in/google scholar // aalv.in

Second-year PhD student at UC Berkeley studying artificial intelligence, focusing on perception for autonomous vehicles. Recognized internationally for social impact and design.

## University of California, Berkeley

Aug 18 - present

*PhD in Artificial Intelligence*

SqueezeDet (CVPR '17), SqueezeSeg (ICRA '18), Shift (CVPR '18), Model-Based Value Est. ('18)

*B.S. in Electrical Engineering and Computer Science . Major GPA: 3.81/4.0*

Aug 14 - May 18

**Honors:** Samuel Silver Memorial Award ('18), Summer Undergrad. Research Fellowship ('17), Leadership Award ('16), Dean's Honor List ('16), Regents' and Chancellor's Scholarship ('14)

## UC Berkeley EECS Department Head Student Instructor (6x)

Aug 15 - present

*4.83 / 5.00 rating (4.45 / 5.00 dpt average) . Machine Learning (Fa19, Sp18, Fa17, non-head Sp17)*

*Discrete Mathematics and Prob. Theory (Sp16, Fa16, Sp17) . SICP<sup>1</sup> (non-head Fa15)*

- handled staffs of up to 70 TAs, tutors, interns; serving 500-800 students
- organized weekly events with 100+ attendees; co-wrote official course notes, problem sets
- Ok.py autograder developer: raised test coverage from 37.1% to 90.7%, 3k+ users annually
- published 3 booklets for math, probability theory, intro. computer science (10k+ downloads)
- Head Tutor (SICP<sup>1</sup>, Su16), Tutor (*Machine Learning*, Su18; *Artificial Intelligence*, Su16; SICP<sup>1</sup>, Sp15)

## Rex Software Engineer

May 18 - present

creating AI scheduling assistant with natural language support for internal use, 200+ daily users

## Facebook Oculus Research Intern

May 19 - Aug 19

conduct research for efficient machine learning on mobile devices

## DeepScale Machine Learning Research Intern

May 17 - Aug 17

employed sensor fusion, developed metrics for point cloud prediction with focus on object detection

## Facebook Software Engineering Intern

May 16 - Aug 16

centralized media loading and cut 50%+ networks requests for photo gallery on Android Messenger

## TEDxBerkeley Director of Technology

Aug 14 - May 18

- annually manage ~250 volunteers for 2000 patrons, deployed 4 iOS apps (800+ downloads)
- redesigned website, archived at [tedxberkeley.github.io](https://tedxberkeley.github.io)

## Bit by Bit Vice President of Technology

Jan 17 - present

- collaborate with LinkedIn, Unity etc. to host tours for underprivileged communities. [littlebitbybit.org](https://littlebitbybit.org)
- co-organized Sp19 tech tour; 40+ participants + 6 community partners, including Facebook, Mozilla

## International Awards

- Microsoft Imagine Cup **World Finals Top 6** "Big Data" Finalists ('18, of 40k+ entrants, 200+ countries)
- Named "Web and Mobile" **top 16 designers in the world** by Rookies Co. ('17, ~9k entries, 80+ countries)
- **International semifinalist** in social impact by Adobe Design Achievement Awards ('17, '18, ~7k entrants)

**Hobbies:** teach on AirBnb (4.9/5.0 rating, 50+ 5-star reviews, [aalv.in/airbnb](https://aalv.in/airbnb)); write tutorials for virtual reality ([aalv.in/smashingmagazine](https://aalv.in/smashingmagazine)), web design ([aalv.in/logrocket](https://aalv.in/logrocket)), and machine learning ([aalv.in/digitalocean](https://aalv.in/digitalocean), 1.8+ million views); user interface design and 3d modeling ([dribbble.com/alvinwan](https://dribbble.com/alvinwan))

<sup>1</sup> SICP stands for Structure and Interpretation of Computer Programs, an introductory computer science course at UC Berkeley