

Alvin Wan

github.com/alvinwan // aalv.in/googlescholar // aalv.in

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

EDUCATION

University of California, Berkeley

Aug 18 - present

PhD in Artificial Intelligence

NBDT, SegNBDT, FBNetV3, FBNetV2 (CVPR '20), SqueezeSeg (ICRA '18), Shift (CVPR '18), NSF Fellowship ('18)¹

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)

EXPERIENCE

UC Berkeley EECS Department Head Student Instructor (6x)

Aug 15 - Dec 19

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) . SICP² (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 (SICP², Su16), Tutor (Machine Learning, Su18; Artificial Intelligence, Su16; SICP², Sp15)

Rex Machine Learning Engineer

May 18 - present

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

Facebook Oculus Research Intern

May 19 - present

conduct research for efficient machine learning on mobile devices, published FBNetV2 (CVPR '20)

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

Bit by Bit Vice President of Technology

Jan 17 - present

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

OTHER

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); write tutorials for virtual reality (aalv.in/smashingmagazine), web design (aalv.in/logrocket), and machine learning (aalv.in/digitalocean, 1.9+ million views); user interface design and 3d modeling (dribbble.com/alvinwan)

¹ One of 20 nation-wide recipients for Machine Learning, representing ~0.1% of 12,000+ applicants.

² SICP stands for "Structure and Interpretation of Computer Programs", an introductory computer science course at UC Berkeley