Alvin Wan

alvinwan@berkeley.edu

github.com/alvinwan . alvinwan.com/summary . aaalv.in/scholar (Google Scholar)

First-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 2018-present

PhD in Artificial Intelligence

Papers: SqueezeDet (CVPR '17, Embedded Vision Workshop Best Paper), SqueezeSeg (ICRA '18), Shift (CVPR '18), Model-Based Value Expansion (submitted to NIPS '18)

University of California, Berkeley   2014-2018

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

Honors: Samuel Silver Memorial Award (2018), Summer Undergraduate Research Fellowship (2017), Honors to Date (2017), Leadership Award (2016), Eta Kappa Nu (2016), Dean's Honor List (2016), Regents' and Chancellor's Scholarship (2014)

5-time Head Student Instructor, 2-time Student Instructor   Aug 2017 - present

4.83 / 5.00 rating (4.45 / 5.00 dpt average) . **Machine Learning (Sp18, Fa17, student instructor Sp17) . Discrete Mathematics and Prob. Theory (Sp16, Fa16, Sp17) .** SICP[1] **(student instructor Fa15)**

- handled staffs of up to 70 TAs, tutors, interns teaching 500-800 students
- organized weekly events with 100+ attendees; wrote and organized official course notes, problem sets
- Core developer for Ok.py autograder: raise test coverage from 37.1% to 90.7%, 1.4k+ users ea. semester
- published 3 booklets for math, probability theory, introductory CS (10k+ downloads)
- **More:** Head Tutor (SICP[1], Su16), Tutor (Machine Learning, Su18; Artificial Intelligence, Su16; SICP[1],Sp15)

Rex Software Engineer   May 2018 - present

- building AI scheduling assistant with natural language support over email

DeepScale Machine Learning Research Intern   May 2017 - Aug 2017

- employed sensor fusion for higher-resolution point cloud prediction with focus on object detection tasks

Facebook Software Engineering Intern   May 2016 - Aug 2016

- worked with selendroid, ADM, and IntelliJ for Tincan (encrypted threads) and Picheads (camera)
- updated internal GraphQL dex, halved photo gallery network requests, centralized Tincan media load

Not-for-profits:

- **TEDxBerkeley Director of Technology ('14-'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 ('17-present)** collaborate with Mercy, CCDC, LinkedIn, Unity etc. to host tours, run sessions. Learn more at littlebitbybit.org

International Recognition:

- Microsoft Imagine Cup World Finals "Big Data" Top 6 Finalists ('18, of 40k+ entrants, 200+ countries)
- Named one of top 16 "Web and Mobile" 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)

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[1] SICP stands for Structure and Interpretation of Computer Programs, an introductory computer science course at UC Berkeley