# Frank Chen

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## EDUCATION

**UNIVERSITY OF WASHINGTON**
DATA SCIENCE M.S.
*Spring 2020*

**UNIVERSITY OF CALIFORNIA, LOS ANGELES**
COMPUTER SCIENCE B.S.
*Spring 2017*

**HONORS / SCHOLARSHIPS**
Upsilon Pi Epsilon
Eta Kappa Nu
Commencement Student Speaker
Henry M. Showman Prize
Gerald J. Popek Scholarship in Computer Science
Eric and Peggy Johnson Scholarship in Engineering

## SKILLS

**LANGUAGES**
Python, C++/C, MATLAB/Octave, HTML/CSS, Javascript, SQL

**TECHNOLOGIES**
VSTS | Kusto | Lens | PowerBI
Shell/Bash | Arduino IDE | Git
AutoDesk | OpenCV | Sklearn

## LINKS

Github: /kfrankc
LinkedIn: /kfrankc
Medium: @kfrankc
Goodreads: /kfrankc

## COURSEWORK

Artificial Intelligence
Machine Learning
Mathematical Modeling
Operating Systems
UNIX/Linux Programming
Database Systems
Functional Programming
Cybersecurity

## LEADERSHIP

**Resident Assistant**
Fall 2015—June 2017
Responsible for a floor of 90 residents in UCLA Residential Dorms.

**LA Hacks Director of Mentorship**
Fall 2015—Spring 2017
Mentorship organizer of UCLA's Student Hackathon

**Bruin Entrepreneurs**
Fall 2014—Spring 2015
Led incubator program for UCLA student entrepreneurs

## EXPERIENCE

**MICROSOFT**
PROGRAM MANAGER — Seattle, WA | July 2017 — present
> Saved Service Engineers hundreds of hours using ML to auto-route SAP incidents
> Drive onboarding & adoption for 1000+ components in CSE to Unified Telemetry Platform
> Early in Career Lead for Core Platform Engineering, part of Diversity & Inclusion Initiative

**JET PROPULSION LABORATORY**
COMPUTER VISION RESEARCH INTERN — Pasadena, CA | June 2015 — June 2016
> Research Intern under Dr. Thomas Lu (349B)
> Achieved 90 % accuracy for segmenting IR multi-bandwidth targets using neural network
> Published two papers at SPIE conferences

**CENTER FOR VISION, COGNITION, LEARNING, AND AUTONOMY**
UNDERGRADUATE RESEARCHER — Los Angeles, CA | March 2016 — April 2017
> Undergraduate researcher for Dr. Song-Chun Zhu
> Research in robot learning & fluent extraction
> Built detection + tracking modules in OpenCV for teaching robots to fold shirts
> Submitted papers to NIPS, IJCAI, and CoRL conferences.

**WORKDAY**
APPLICATION DEVELOPMENT INTERN — Pleasanton, CA | June — Sept 2016
> Implemented Tax Location Mapping Reports as part of Workday 28 Release.
> Created get/put APIs for Workday Web Services

**TABOOLA**
SOFTWARE ENGINEERING INTERN — Los Angeles, CA | March — June 2016
> Implemented user authentication systems using React & Node.js
> Built modules to communicate with Taboola Backstage API from scratch

**CS 88S: UNDERGRADUATE STUDENT INITIATED EDUCATION (USIE)**
STUDENT FACILITATOR — Los Angeles, CA | Sept 2016 — June 2017
> Designed a 10-week undergraduate computer science seminar to introduce students to cybersecurity fundamentals & protecting themselves in cyberspace
> Reached an international audience, with more than 1400 people subscribed to my weekly email updates on topics and relevant articles covered in the course

## PROJECTS

**IEEE NATCAR** — Los Angeles CA | Sept 2014 — June 2015
Design, build, & race an autonomous RC car on tracks marked by 1"-wide white tape
**1st place** at UC Davis NATCAR Competition of 40+ teams,
**3rd place** at UCSD Grand PrIEEE Competition out of 30+ teams

**ROBOHOME** [IDEA HACKS 2016] — Los Angeles CA | Feb 2016
Created model home with door, lights, shower, and TV that can be remotely controlled using Myo armband, Pebble, Smartphone, and laptop.
**1st Place** out of 200+ competitors

**MYODRONE** [PENNAPPS 2015] — Philadelphia, MA | Jan 2014
Built a selfie-drone controlled using the Myo armband + Intel Edison
**Top 30** out of 1000+ competitors

## PUBLICATIONS

2016 SPIE Cross-Correlation and Image Alignment for Multi-Band IR Sensors
2017 SPIE Intelligent multi-spectral IR image segmentation
2017 CoRL Learning Human Utility from Video Demonstrations for Deductive Planning in Robotics