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

github.com/kfrankc

linkedin.com/in/kfrankc

goodreads.com/kfrankc

SKILLS

LANGUAGES
Python, R, C++/C
HTML/CSS, Javascript, SQL

TECHNOLOGIES
Figma | Git | VS Code
Azure DevOps | Kusto | PowerBI
Tableau | Jupyter

COURSEWORK

Statistics and Probability
Data Visualization
Intro to Machine Learning
Database Systems
Mathematical Modeling
Functional Programming
Medical Imaging
Cybersecurity

LEADERSHIP

Microsoft Early in Career Lead
Fall 2018—present
Build Early in Career Community in my org Core Platform Engr.

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

LA Hacks Dir. of Mentorship
Fall 2015—Spring 2017
Mentorship organizer of UCLA's Student Hackathon

EXPERIENCE

Program Manager · Seattle, WA · July 2017—present
Microsoft
Building a modern, scalable, reliable, and cost-effective telemetry platform

Software Engineering Intern · Pleasanton, CA · June 2016—September 2016
Workday
Contributed to UI/UX updates in Finance team using Xpresso

Software Engineering Intern · Los Angeles, CA · March 2016—June 2016
Taboola
Built authentication middleware system using Node.JS

Undergraduate Researcher · Los Angeles, CA · March 2016—April 2017
Center for Vision, Cognition, Learning, and Autonomy
Built detection + tracking modules in robot learning and fluent extraction

Research Intern · Pasadena, CA · June 2015—June 2016
Jet Propulsion Laboratory
Published two SPIE conference papers on segmenting IR bandwidth targets

Student Lecturer · Los Angeles, CA · Sept 2016—June 2017
Undergraduate Student Initiated Education (USIE)
Designed 10-week undergrad computer science seminar about cybersecurity; Reached international audience with 1400+ subscribers to weekly email

Program Manager · Los Angeles, CA · Sept 2014—March 2016
The Daily Bruin
Led end-to-end redesign of Spectrum, Daily Bruin's photo blog

PROJECTS

SciFi Through The Ages
Data visualization project to show trends in science fiction films:
https://scifithroughtheages.com

Blood Flow Vector Field Visualization
Visualize dicom medical files via frame-by-frame skeletonization, path computation using BFS, and browser-based vector-field rendering using Javascript: https://kfrankc.com/cs188

IEEE NatCar
Design, build, & race an autonomous RC car on tracks marked by 1''-wide white tape
1st at UC Davis NATCAR Competition of 40+ teams
3rd at UCSD Grand PrIEEE Competition out of 30+ teams

RoboHome
Created model home with door, lights, shower, and TV that can be remotely controlled using Myo armband, Pebble, Smartphone, and laptop.
1st out of 200+ competitors

MyoDrone
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