

# Brian Fu

## EDUCATION

### University of California, Berkeley

2017–2021

Computer Science / Data Science

Classes: Algorithms and Intractable Problems, Intro to AI, Data Structures

Research: Computational Game Theory under Dr. Dan Garcia

Teaching: Coding in Python CS61a lab, Data Structures in Java CS61b lab

## WORK EXPERIENCE

### Cal/Amp Corp. — *Software Engineering Intern*

SUMMER 2019

- Architected and implemented a highly scalable message queue to enrich and route 200,000 messages/minute.
- Engineered a driver scoring algorithm validated against 3000 operators.

SUMMER 2018

- Interpolated user's path traveled along listed roads from a sparsely populated coordinate list.
- Classified vehicle make/model/year on engine computer data using ML.

### Vanguard International Semiconductor — *IT Intern*

SUMMER 2017

Developed information collection forms and quality-of-life improvements to the internal company network. Translated work from Chinese to English.

## PROJECTS

<https://github.com/brianfu9>

### brianfu.me, personal website

Ongoing

A terminal style personal website where users browse by inputting the page they want to access into a command line.

### Lifework Online, Cal Start-up Launchathon

March 2019

Developed an MVP escrow web app for guaranteeing payments to freelance workers utilizing the Stripe API. Won second place overall.

### Bear Faced, Cal Hacks

November 2018

Pastes an image of a bear's face with your emotion on a picture of your face utilizing emotion detection and image labeling neural networks.

### iSho, Hack MIT

September 2018

An interactive force-graph of enterprise markets and transactions. Nodes are companies and edges represent a transaction. Each node's distance is determined by the size and quantity of transactions. Won Kensho API prize.

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## LANGUAGES

- Python
- JavaScript
- Java
- C

## TECH STACK

- Docker
- Kubernetes
- Amazon Web Services
- Google Cloud Platform
- Digital Ocean
- SQL/NoSQL Databases
- Kafka message queue
- HTTP REST
- Node, Flask, Serverless
- Spring Framework
- TensorFlow Keras
- Data modeling, analytics, visualization

## SKILLS

- Boy Scouts: Eagle Scout
- MTAC: Piano–Level 10
- Proficient in Mandarin

## INTERESTS

- Hackathons
- Swim
- Cross Country
- Photography
- A Capella

