Brian Fu

(510) 833 -7002
brianfu9@berkeley.edu
Berkeley, CA
https://brianfu.me

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

WORK EXPERIENCE

Cal/Amp Corp. — *Software Engineering Intern*
SUMMER 2018

Used deep learning neural networks to classify make/model/year of vehicles based on CAN protocol engine data. Developed a microservice to snap a list of geo-coordinates to mapped streets using A* graph search. Both services hosted through Amazon Web Services.

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.

National Tsinghua University —*Biochemistry Research Assistant*
SUMMER 2016

Performed protein expression and purification of calcium-bound S100A12 proteins on E. Coli samples to prevent uncontrolled cell proliferation. [1][2]

PROJECTS   https://github.com/brianfu9

Slowly, LA Hacks   29 March 2019
Web app utilizing Smartcar's API to aggregate driver data and generate a safe driver score to gamify and educate young drivers.

Lifework Online, Cal Start-up Launchathon   16 March 2019
Developed an MVP escrow web app for guaranteeing payments to freelance workers through the Stripe API.

Bear Faced, Cal Hacks   4 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.

Briefly, Hack MIT   16 September 2018
Summarizes an audio lecture or podcast in written form using natural language processing and speech to text.

LANGUAGES
- Java
- C
- Python
- JavaScript
- HTML/XML

INFRASTRUCTURE
- Node
- Bootstrap
- TensorFlow
- Unix
- Docker
- Unity
- SQL/NoSQL
- Restful API

Amazon Web Services
- Elastic Container Services
- Elastic Compute Cloud
- DynamoDB
- Lambda
- API Gateway
- Simple Storage Service

SKILLS
- Boy Scouts of America: Eagle Scout
- MTAC: Certificate of Merit - Piano Level 10
- Proficient in Mandarin

INTERESTS
- Hackathons
- Swim
- Cross Country
- Backpacking
- A Capella

[1] Chiou JW, Fu B, Chou RH, Yu C (2016) Blocking the Interactions between Calcium-Bound S100A12 Protein and the V Domain of RAGE Using Tranilast. PLOS ONE 11(9): e0162000. https://doi.org/10.1371/journal.pone.0162000

[2] Zong-Sian Wu, Che Fu Liu, Brian Fu, Ruey-Hwang Chou, Chin Yu (2016) Suramin blocks interaction between human FGF1 and FGFR2 D2 domain and reduces downstream signaling activity. BBRC. https://doi.org/10.1016/j.bbrc.2016.06.149