Brian Fu

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https://github.com/brianfu9

EDUCATION

University of California, Berkeley   2017–2021

Computer Science/Applied Mathematics

Classes: Data structures and Algorithms, Machine Structures, Computer Architecture, Discrete Math, Probability Theory

Research: Computational Game Theory under Daniel Garcia

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 documents 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]

VOLUNTEERING

Treasurer, Science Olympiad Club

2016 - 2017

Managed a budget of $10,000 for the Science Olympiad team including the purchase of materials, travel expenses, and competition fees.

Eagle Scout, Boy Scouts of America

OCTOBER 2016

Raised $600 in funds and material donations and built a 32' by 4' irrigated cinder-block table for the Shade Tree nursery at the University of California, Irvine.

LANGUAGES

- Java
- C
- Python
- Scheme
- HTML/XML

INFRASTRUCTURE

- Tensorflow
- Unix
- Docker
- Unity
- SQL/NoSQL

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

SKILLS

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

INTERESTS

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

[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