Brian Fu

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https://brianfu.me
github.com/brianfu9

EDUCATION

University of California, Berkeley   2017–2021

Computer Science | Data Science minor

Classes: Data Structures, Algorithms, AI/ML, Security, Data Science/Analysis
Research: Computational Game Theory under Dr. Dan Garcia
Teaching: Coding in Python CS61a lab, Data Structures in Java CS61b lab

WORK EXPERIENCE

AppDynamics Cisco — *Software Engineering Intern*

SUMMER-FALL 2020

- Developed a migration script from MySQL to TimescaleDB accounting for partition parallelism and cache compression.
- Exposed API's for consuming Kafka metrics data from existing services.

Cal/Amp — *Software Engineering Intern*

SUMMER-FALL 2019

- Architected and prototyped a scalable message queue to enrich and route hundred-thousands of messages per minute utilizing Kafka.
- Translated a driver scoring service from C# to Java, implemented API endpoints, initialized database schemas. Reduced storage cost by 70%.

SUMMER 2018

- Interpolated a true road path from 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 portfolio.

Sub-AR, Hack MIT   September 2019

Generates subtitles in augmented reality that follow the people speaking.

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.

Bearfaced, CalHacks   November 2018

Utilized emotion detection and image labeling neural networks to paste an image of a bear's face with your emotion on your face.

LANGUAGES

- Python
- JavaScript
- Java
- Go
- 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, Micronaut, Dropwizard
- TensorFlow Keras
- Data modeling, analytics, visualization

SKILLS

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

INTERESTS

- Hackathons
- Swim
- Photography
- A Capella